GROUP 90

# CIRCUIT DIAGRAMS

## CONTENTS

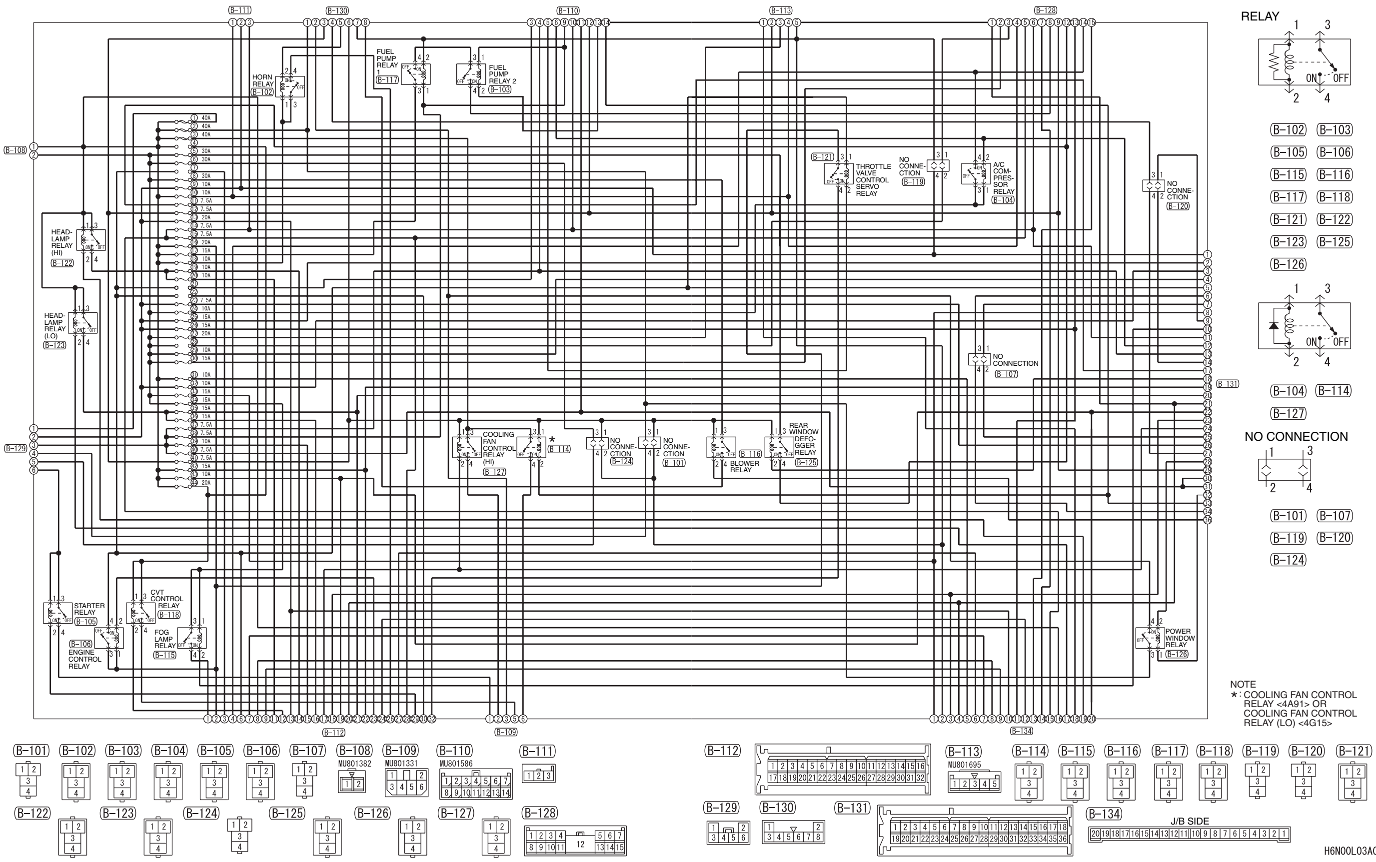


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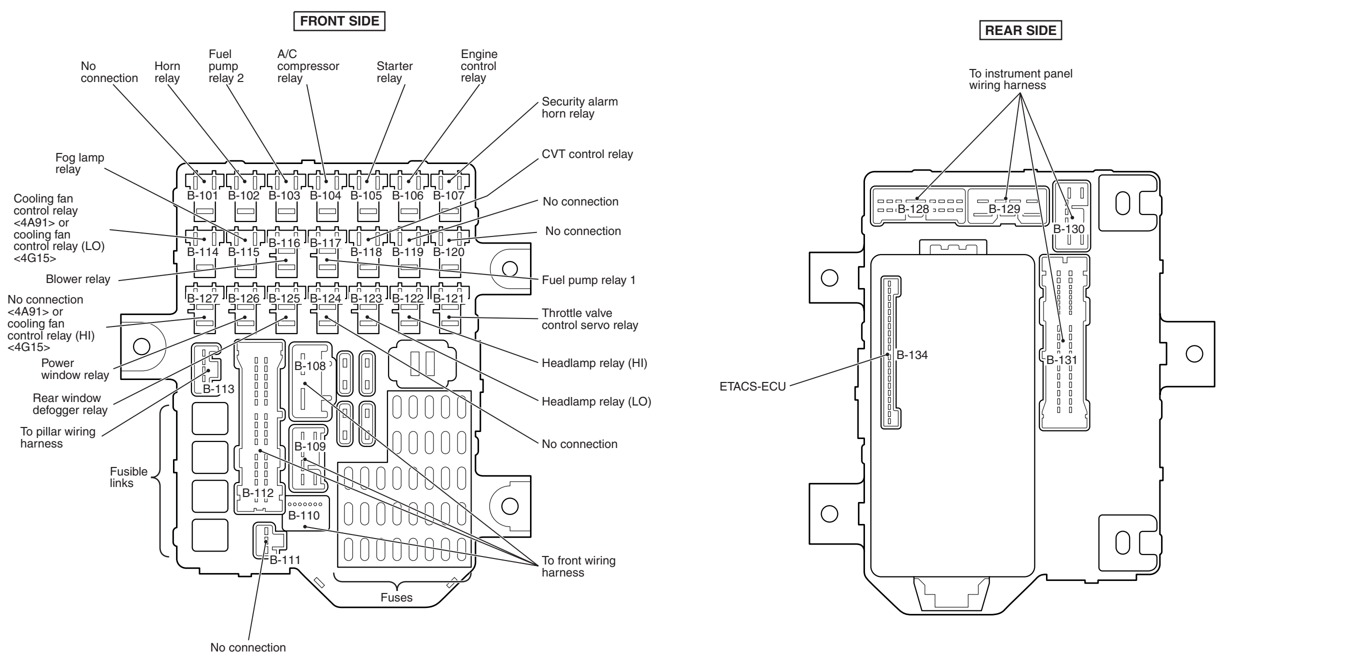
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# J/B

M1901000201964




## J/B (CONTINUED)



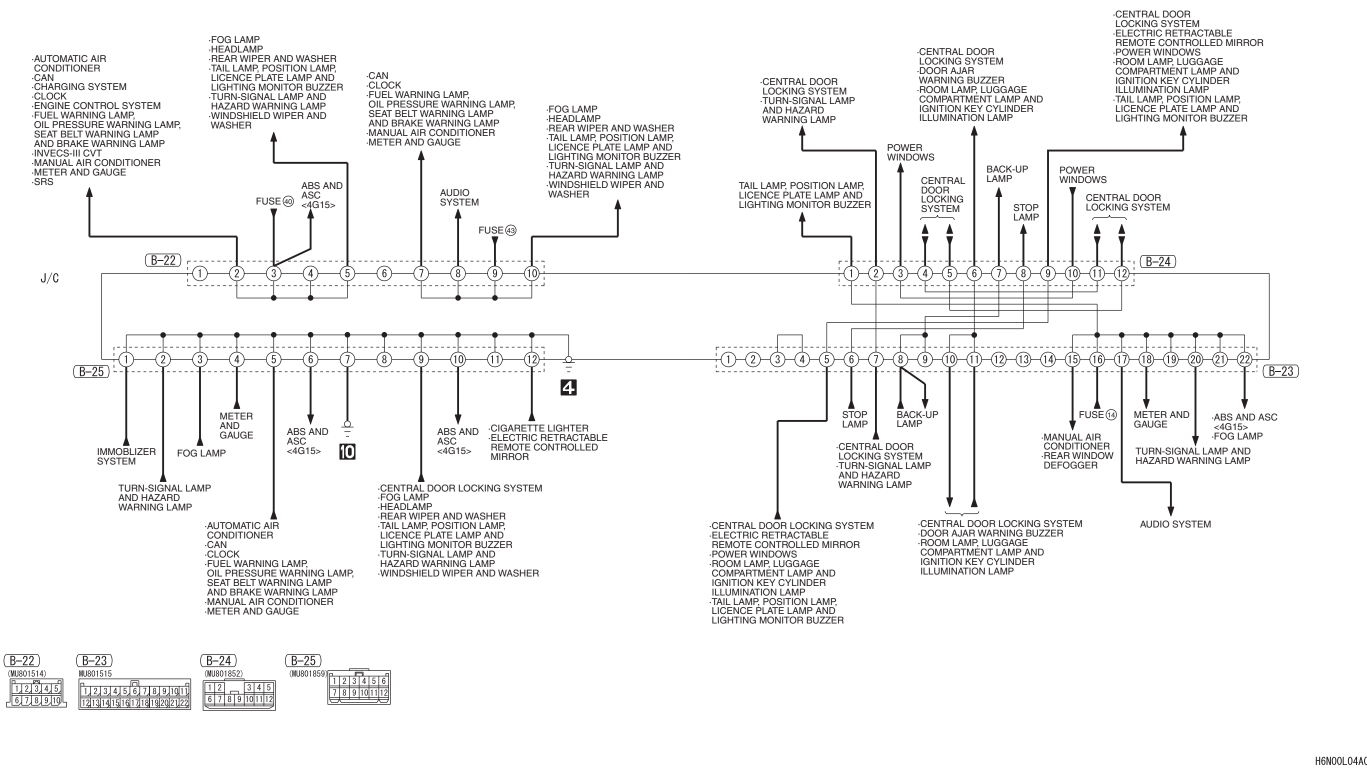

AC312581AM

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# J/C

M1901014202454

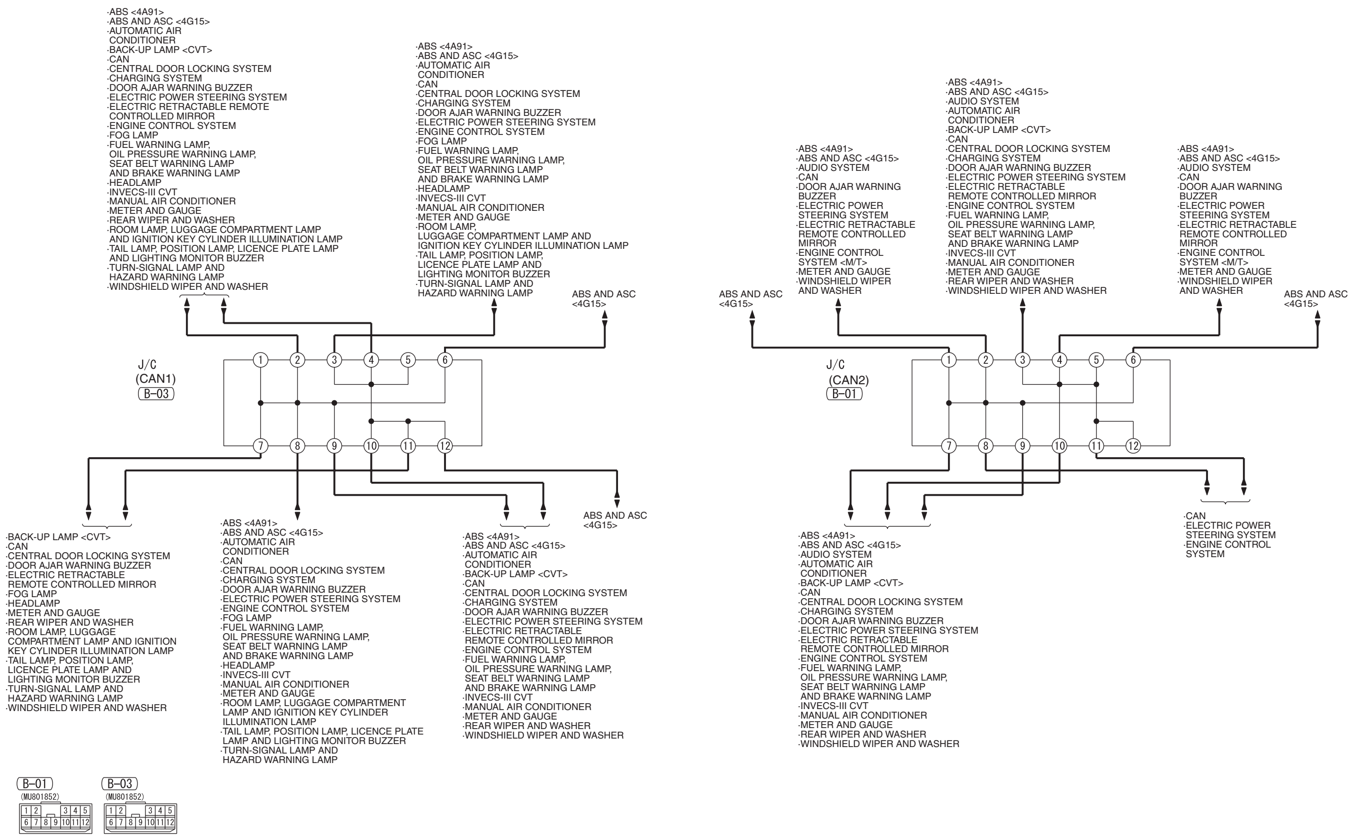
NOTE: IN THE ACTUAL VEHICLES, SOME OF THE J/C TERMINALS IN THE SAME BUS ARE USED, SO IN SOME CASES, THE TERMINAL ARRANGEMENT INDICATED ON THE CIRCUIT DIAGRAMS DOES NOT AGREE WITH THE ONES IN THE ACTUAL VEHICLES. HOWEVER, ON J/C (CAN 1, 2), THE ACTUAL TERMINAL AGREEMENT SHOULD ALWAYS AGREE WITH THE CIRCUIT DIAGRAMS.



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## J/C (CONTINUED)

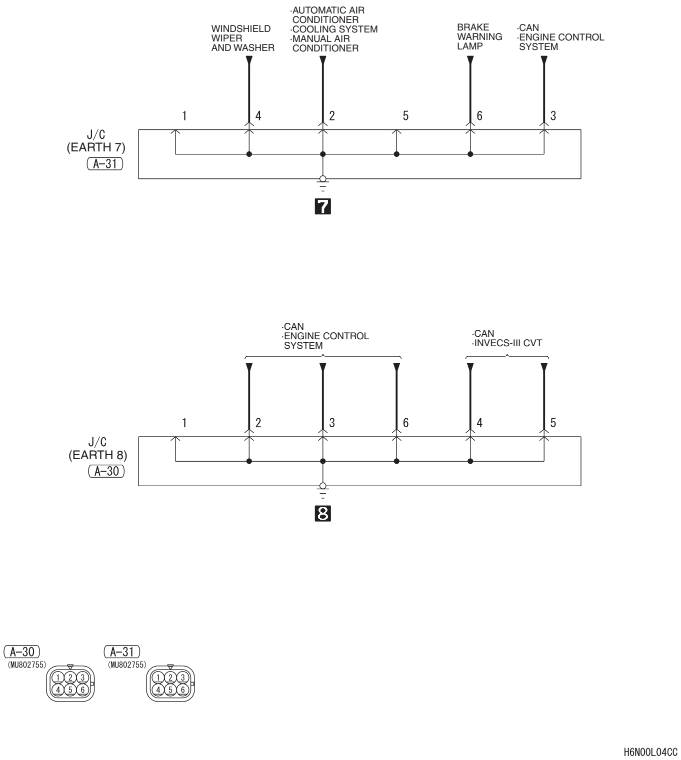


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## J/C (CONTINUED)



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# CENTRALIZED JUNCTION

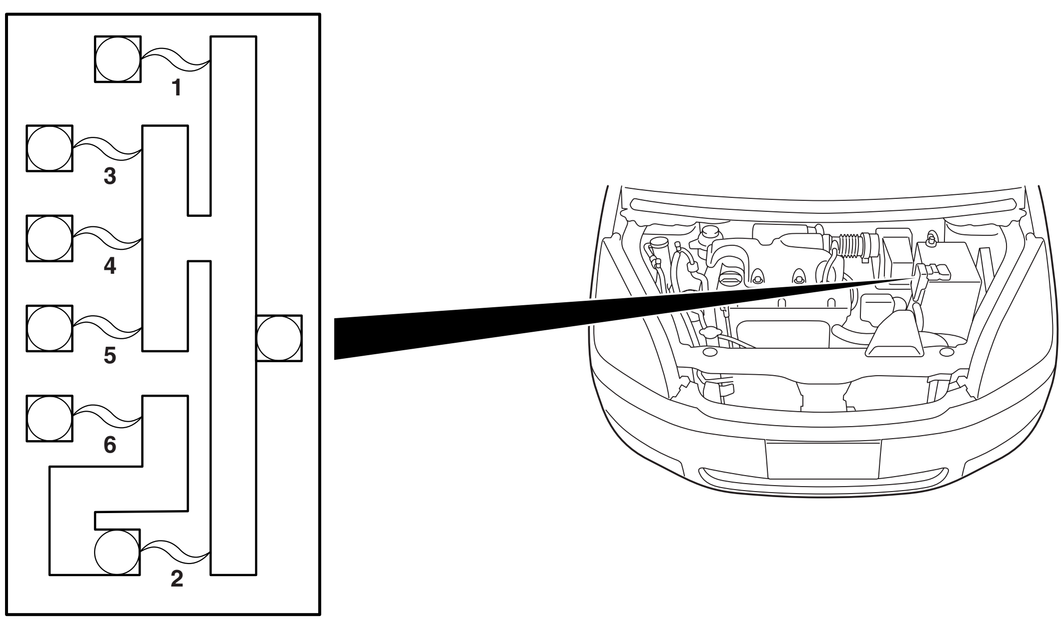
M1901000301842

## FUSIBLE LINK AND FUSE

ENGINE COMPARTMENT

| No. | Power source circuit | Name | Rated capacity (A) | Housing colour | Load circuit |
|---|---|---|---|---|---|
| 1 | Battery/alternator | Fusible link | 120 | – | ETACS-ECU, headlamp relay, fusible link No.1, 2, 3 (in junction block) circuit and fuse No.10, 14, 15, 16, 17, 18, 19, 20, 31, 35, 36, 42, 43, 44 circuit |
| 2 | | | 120 | – | Fusible link No.6 (in fusible link box) circuit/battery and fusible link No.1, 3, 4, 5 (in fusible link box) circuit |
| 3 | | | 40 | – | ABS-ECU and ASC-ECU |
| 4 | | | 60 | – | EPS-ECU |
| 5 | | | 30 | – | ABS-ECU, ASC-ECU and alternator |
| 6 | Fusible link No.2 (in fusible link box) | | 80 | – | Fuse No.5, 8, 11, 24, 27, 29, 30, 33, 34 circuit |

**(Fusible link box connected directly to battery positive terminal)**




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PASSENGER COMPARTMENT

| No. | Power source circuit | Name | Rated capacity (A) | Housing colour | Load circuit |
|---|---|---|---|---|---|
| 1 | Fusible link No.1 (in fusible link box) | Fusible link | 40 | Green | Ignition switch circuit |
| 2 | | | 40 | Green | Power window main switch and power window sub switch |
| 3 | | | 40 | Green | Cooling fan motor |
| 4 | | | – | – | – |
| 5 | Fusible link No.6 (in fusible link box) | Fuse | 30 | Green | Rear window defogger |
| 6 | | | – | – | – |
| 7 | – | | – | – | – |
| 8 | Fusible link No.6 (in fusible link box) | | 30 | Green | Combination meter, blower motor, power transistor and resistor |
| 9 | Ignition switch (ACC) | | 10 | Red | ETACS-ECU, radio and CD player |
| 10 | Fusible link No.1 (in fusible link box) | | 10 | Red | ETACS-ECU, ignition key cylinder illumination lamp, luggage compartment lamp and room lamp |
| 11 | Fusible link No.6 (in fusible link box) | | 7.5 | Brown | – |
| 12 | Ignition switch (IG2) | | 7.5 | Brown | Sunroof motor assembly |
| 13 | Ignition switch (ACC) | | 20 | Yellow | ETACS-ECU, windshield wiper motor and washer motor |
| 14 | ETACS-ECU (tail lamp relay) | | 7.5 | Brown | Fog lamp switch, hazard warning switch, position lamp and tail lamp |
| 15 | | | 7.5 | Brown | Licence plate lamp, position lamp and tail lamp |
| 16 | Fusible link No.1 (in fusible link box) | | 20 | Yellow | Air flow sensor <4G15>, camshaft position sensor, crank angle sensor, EGR valve <CVT>, engine control relay, engine-CVT-ECU <CVT>, engine-ECU <M/T>, fuel pressure control solenoid valve <4G15>, injector, oxygen sensor, primary speed sensor <CVT>, purge control solenoid valve, oil feeder control valve, secondary speed sensor <CVT>, turbine speed sensor <CVT>, throttle valve control servo relay and wastegate solenoid valve <4G15> |
| 17 | | | 15 | Blue | Fuel pump and gauge unit |
| 18 | | | 10 | Red | Horn and horn relay |
| 19 | Headlamp relay: HI | | 10 | Red | Headlamp (HI) |
| 20 | | | 10 | Red | Headlamp (HI) |
| 21 | – | | – | – | – |
| 22 | – | | – | – | – |
| 23 | Ignition switch (ACC) | | 7.5 | Brown | Door mirror assembly |

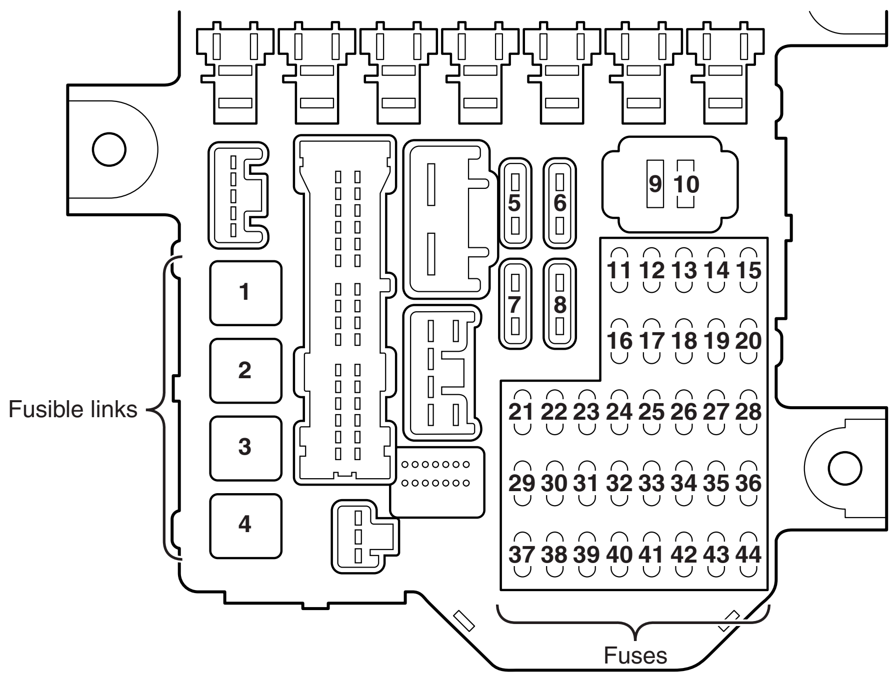
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| No. | Power source circuit | Name | Rated capacity (A) | Housing colour | Load circuit |
|---|---|---|---|---|---|
| 24 | Fusible link No.6 (in fusible link box) | | 10 | Red | A/C compressor, A/C compressor relay, engine-CVT-ECU <CVT> and engine-ECU <M/T> |
| 25 | Ignition switch (ACC) | | 15 | Blue | Cigarette lighter |
| 26 | | | 15 | Blue | ETACS-ECU, rear wiper motor and washer motor |
| 27 | Fusible link No.6 (in fusible link box) | | 20 | Yellow | Sunroof motor assembly |
| 28 | | | – | – | – |
| 29 | | | 10 | Red | – |
| 30 | | | 15 | Blue | – |
| 31 | Fusible link No.1 (in fusible link box) | | 10 | Red | ETACS-ECU and turn-signal lamp |
| 32 | Ignition switch (ACC) | | 10 | Red | – |
| 33 | Fusible link No.6 (in fusible link box) | | 15 | Blue | Diagnosis connector, ETACS-ECU, door lock actuator and door mirror assembly |
| 34 | | | 15 | Blue | Fog lamp and fog lamp relay |
| 35 | Headlamp relay: LO | | 15 | Blue | Headlamp (LO) |
| 36 | | | 15 | Blue | Headlamp (LO) |
| 37 | Ignition switch (IG1) | | 7.5 | Brown | Engine-CVT-ECU <CVT>, SRS-ECU and back-up lamp |
| 38 | | | 7.5 | Brown | Engine-CVT-ECU <CVT>, engine-ECU <M/T> and fuel pump relay |
| 39 | | | 10 | Red | Ignition coil and noise condenser |
| 40 | | | 7.5 | Brown | ABS-ECU <4A91>, ASC-ECU <4G15>, column switch, combination meter, EPS-ECU, ETACS-ECU, SRS-ECU, G and yaw rate sensor and steering wheel sensor |
| 41 | Ignition switch (IG2) | | 7.5 | Brown | Blower relay, combination meter, cooling fan control relay, engine-CVT-ECU <CVT>, engine-ECU <M/T>, outside/inside air selection damper control motor and rear window defogger relay |

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| No. | Power source circuit | Name | Rated capacity (A) | Housing colour | Load circuit |
|---|---|---|---|---|---|
| 42 | Fusible link No.1 (in fusible link box) | | 15 | Blue | ABS-ECU <4A91>, ASC-ECU <4G15>, engine-CVT-ECU <CVT>, engine-ECU <M/T>, high-mounted stop lamp and stop lamp |
| 43 | | | 10 | Red | Column switch, combination meter, ETACS-ECU, engine-CVT-ECU <CVT>, engine-ECU <M/T >, key reminder switch, radio and CD player |
| 44 | | | 20 | Yellow | CVT control solenoid valve assembly, CVT control relay and engine-CVT-ECU <CVT> |

**(in junction block)**

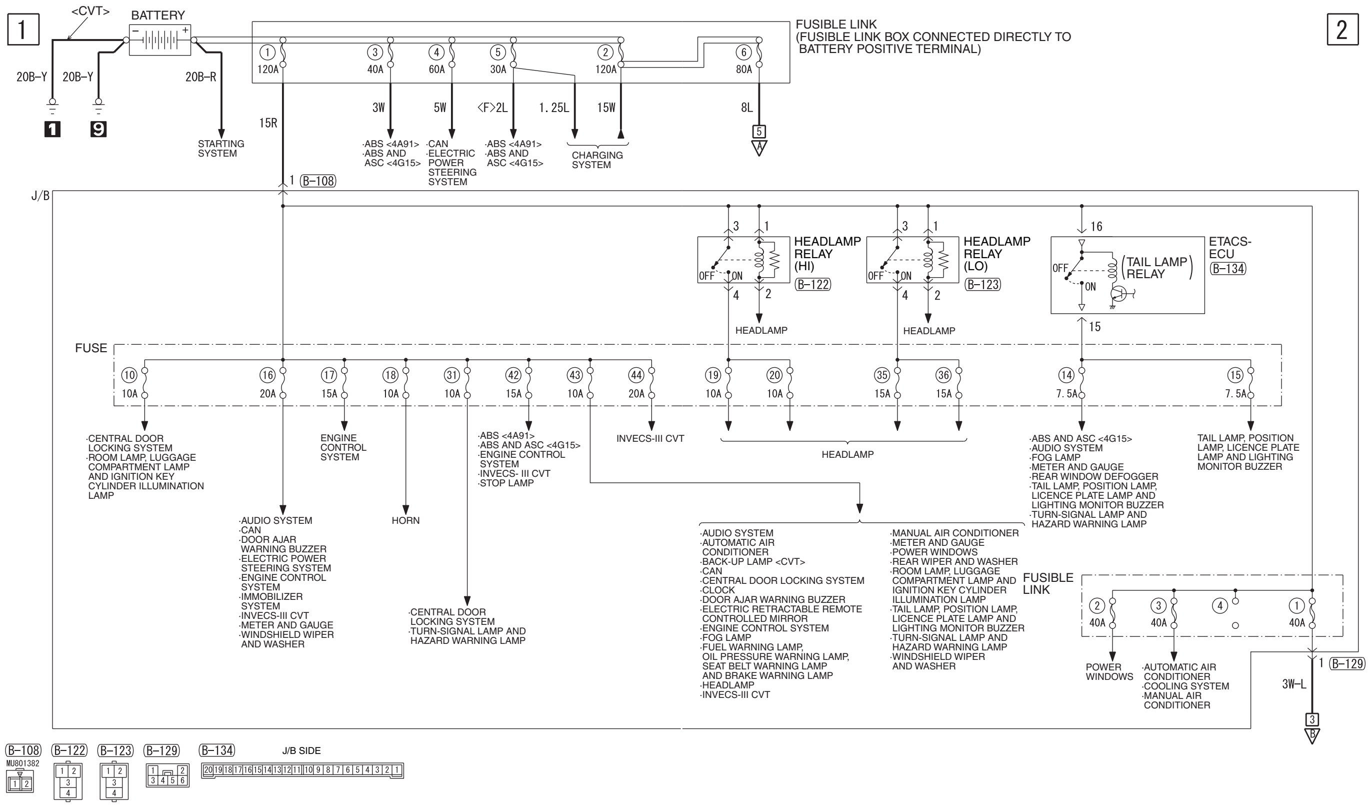



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# POWER DISTRIBUTION SYSTEM

M1901000402529

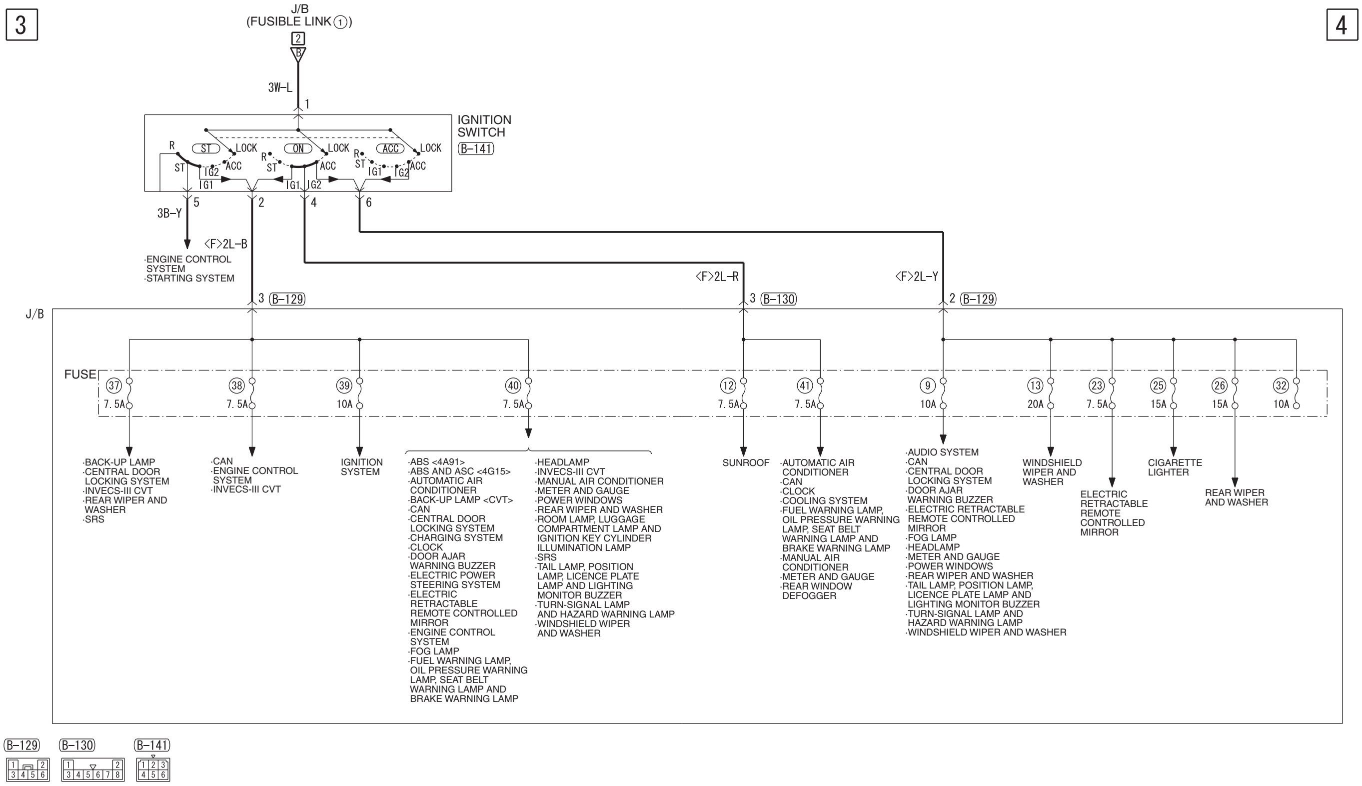



Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

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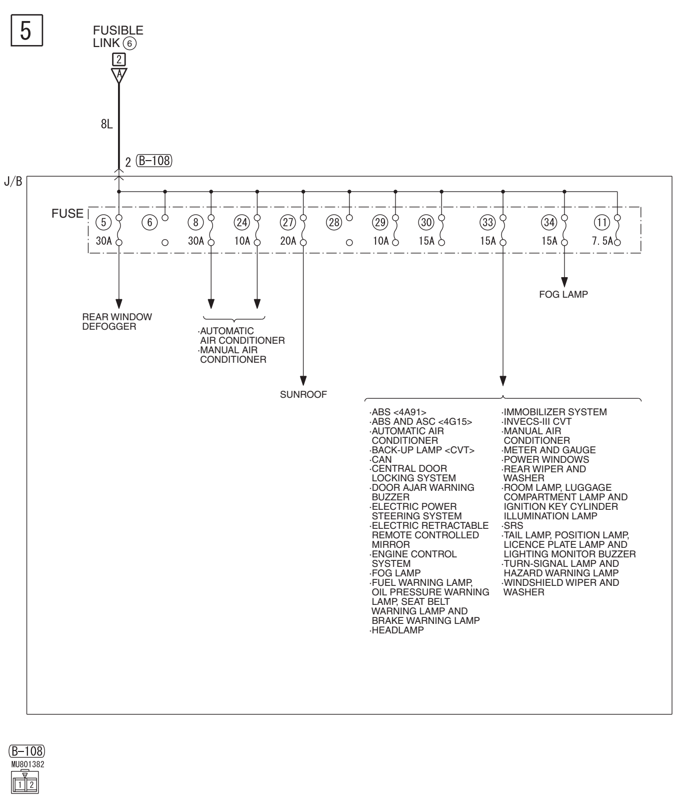
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Wire colour code
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BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

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## POWER DISTRIBUTION SYSTEM (CONTINUED)



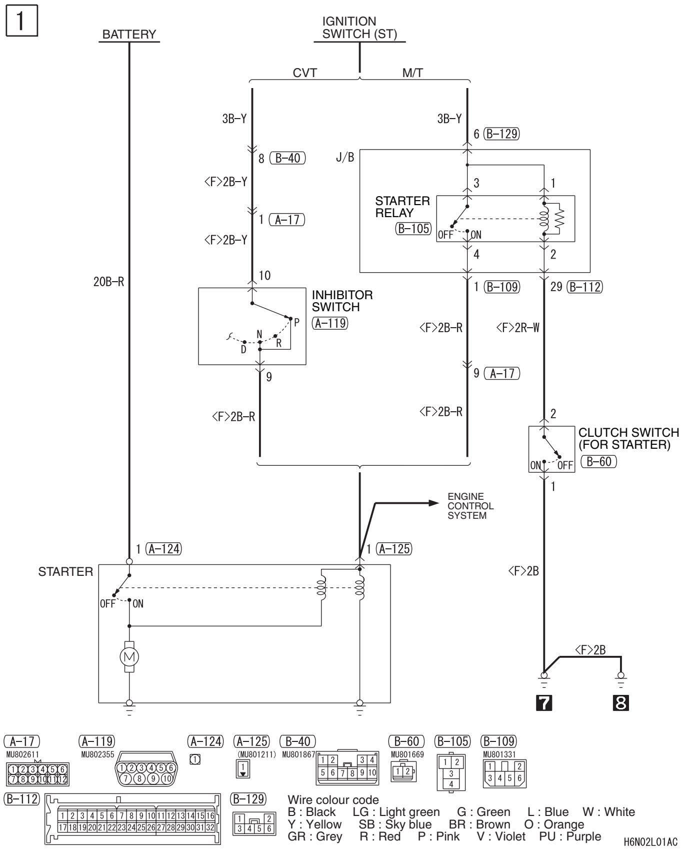

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# STARTING SYSTEM

M1901000502678

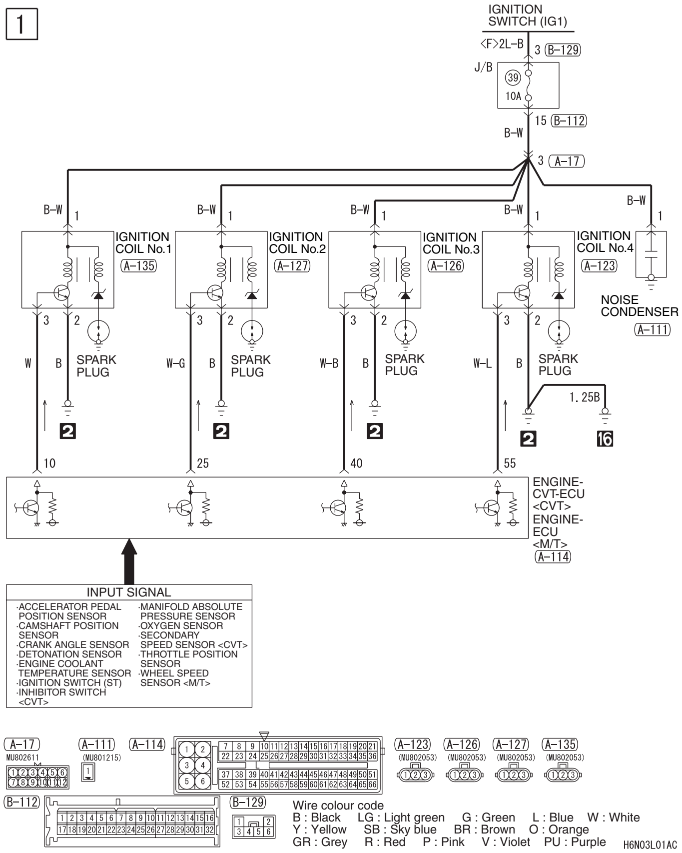


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# IGNITION SYSTEM

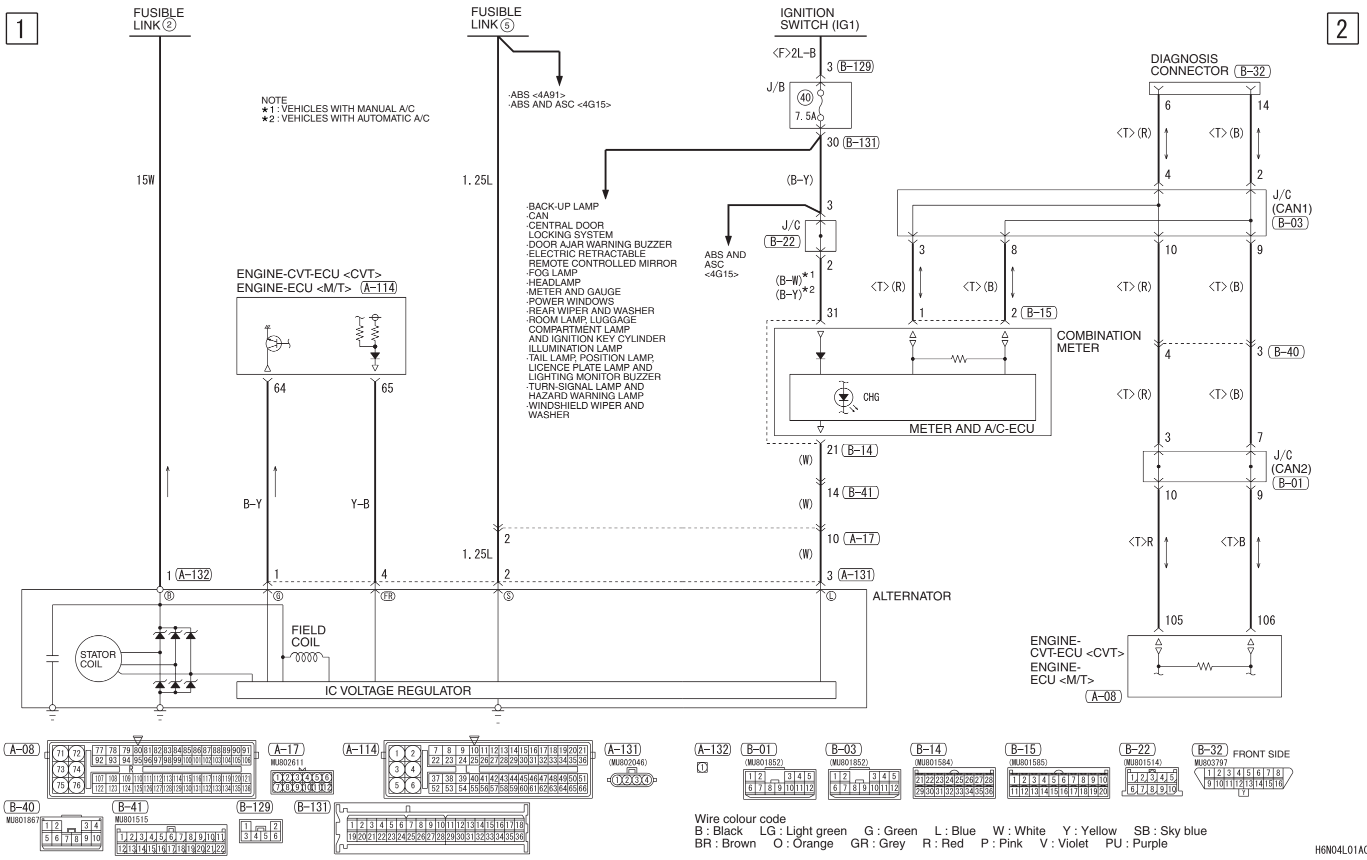
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# CHARGING SYSTEM

M1901000702779



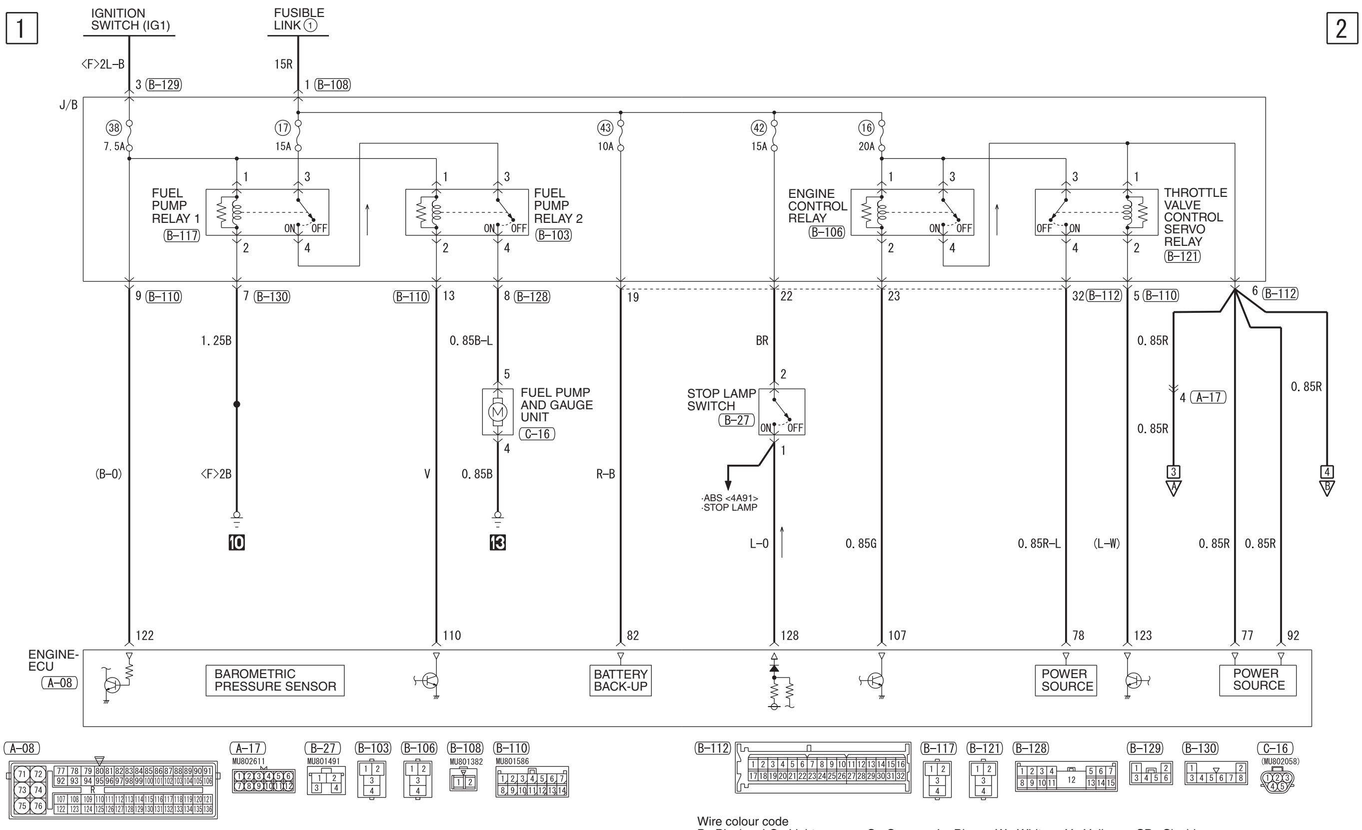

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BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

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# ENGINE CONTROL SYSTEM

## ENGINE CONTROL SYSTEM <4A91-M/T>

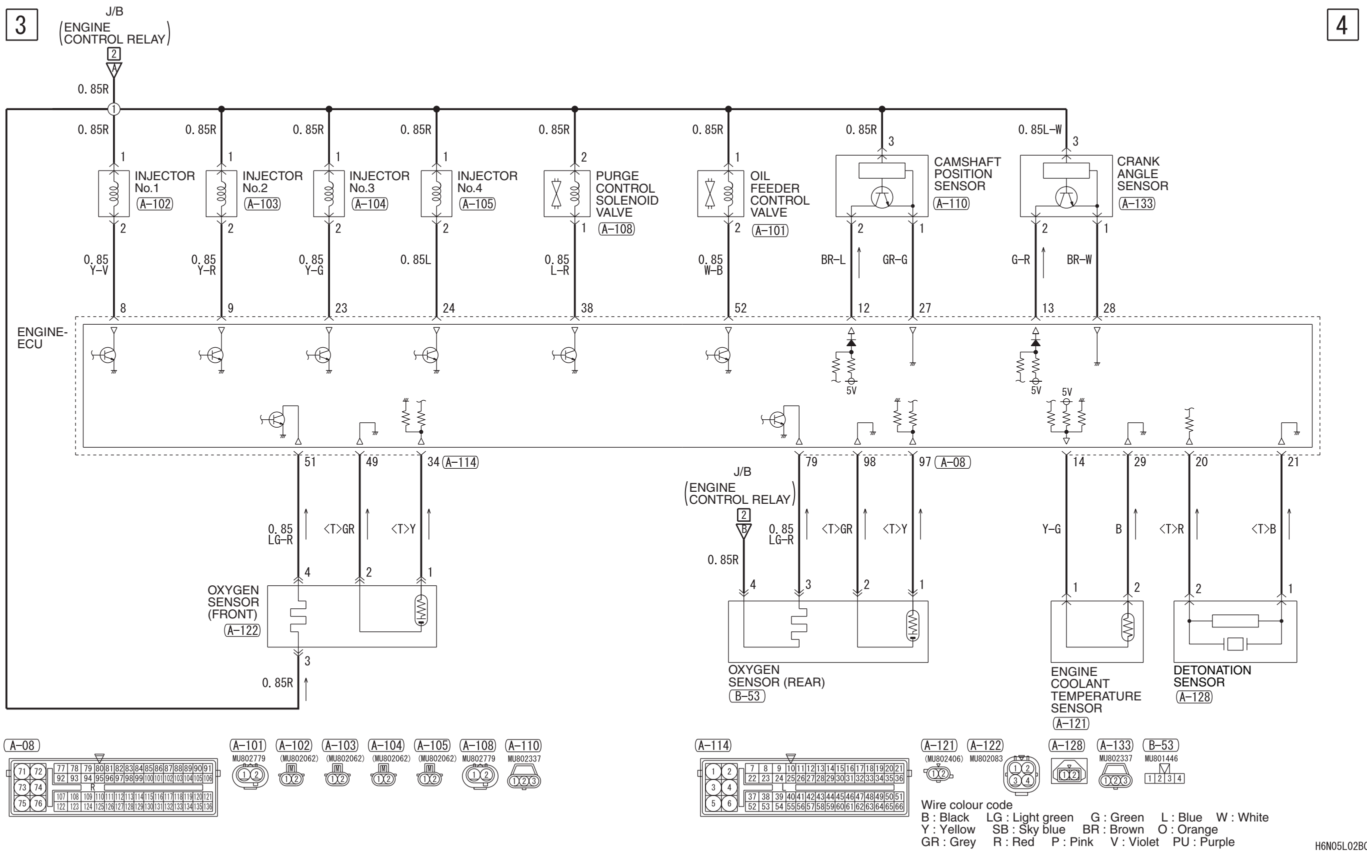
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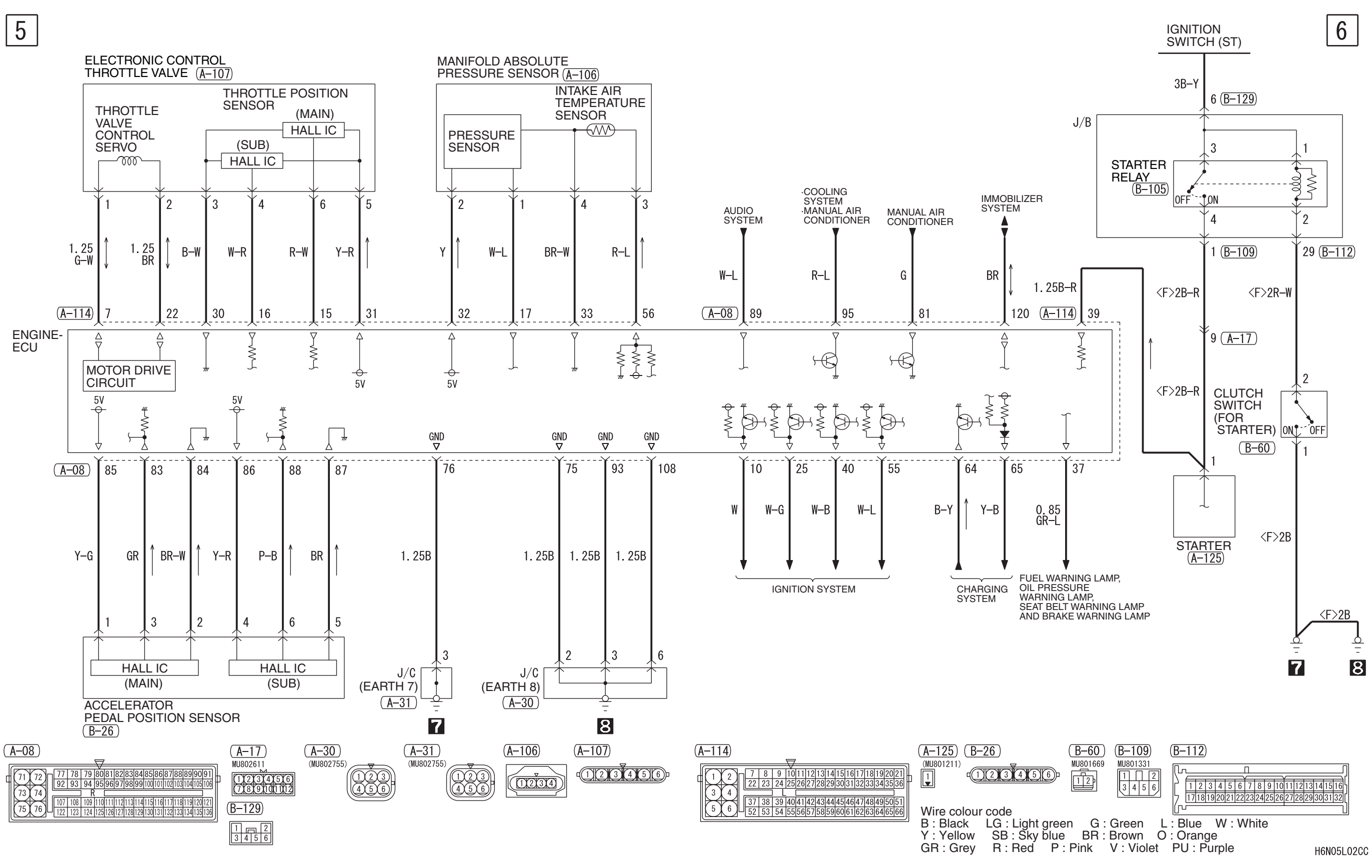

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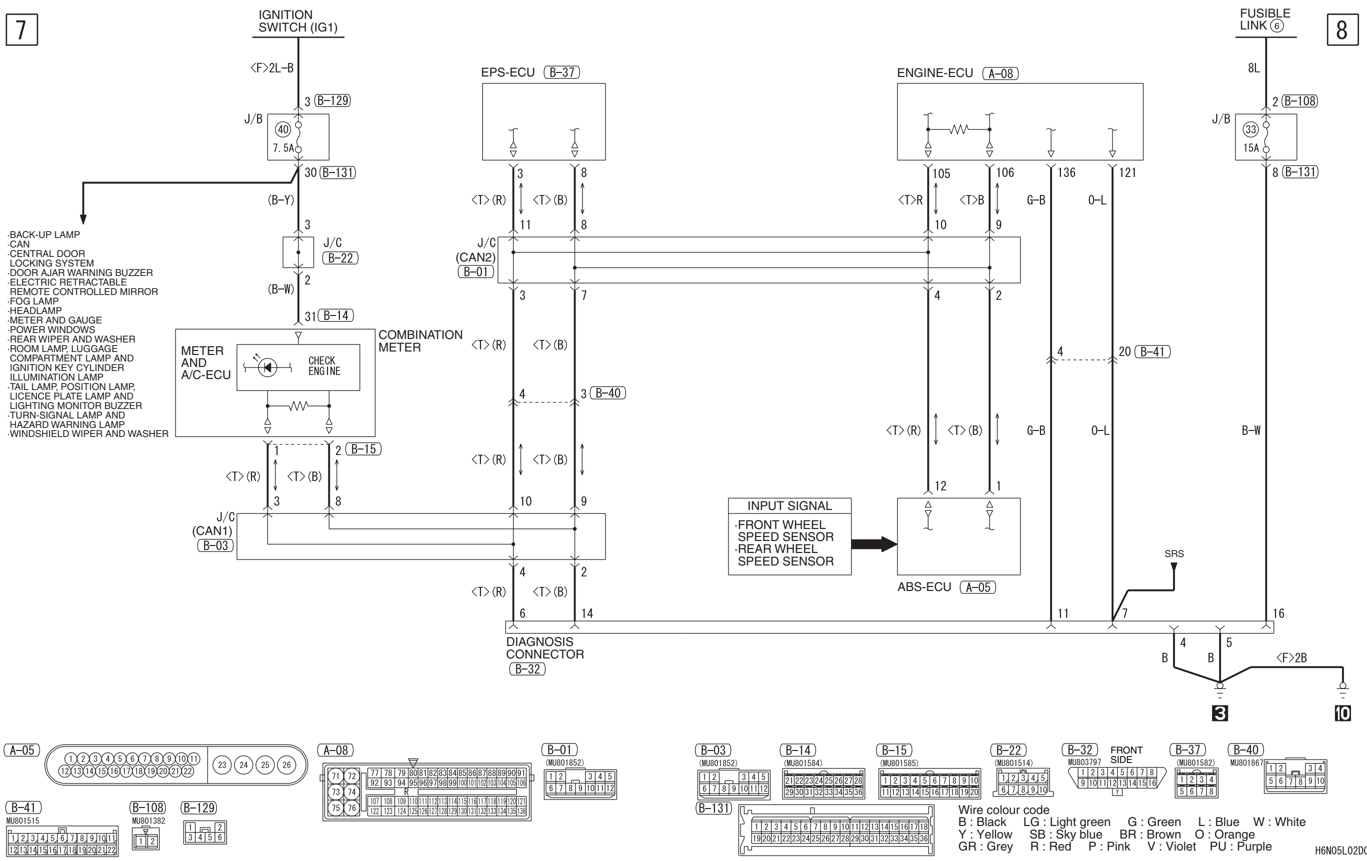



## ENGINE CONTROL SYSTEM <4A91-M/T> (CONTINUED)



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## ENGINE CONTROL SYSTEM <4A91-M/T> (CONTINUED)

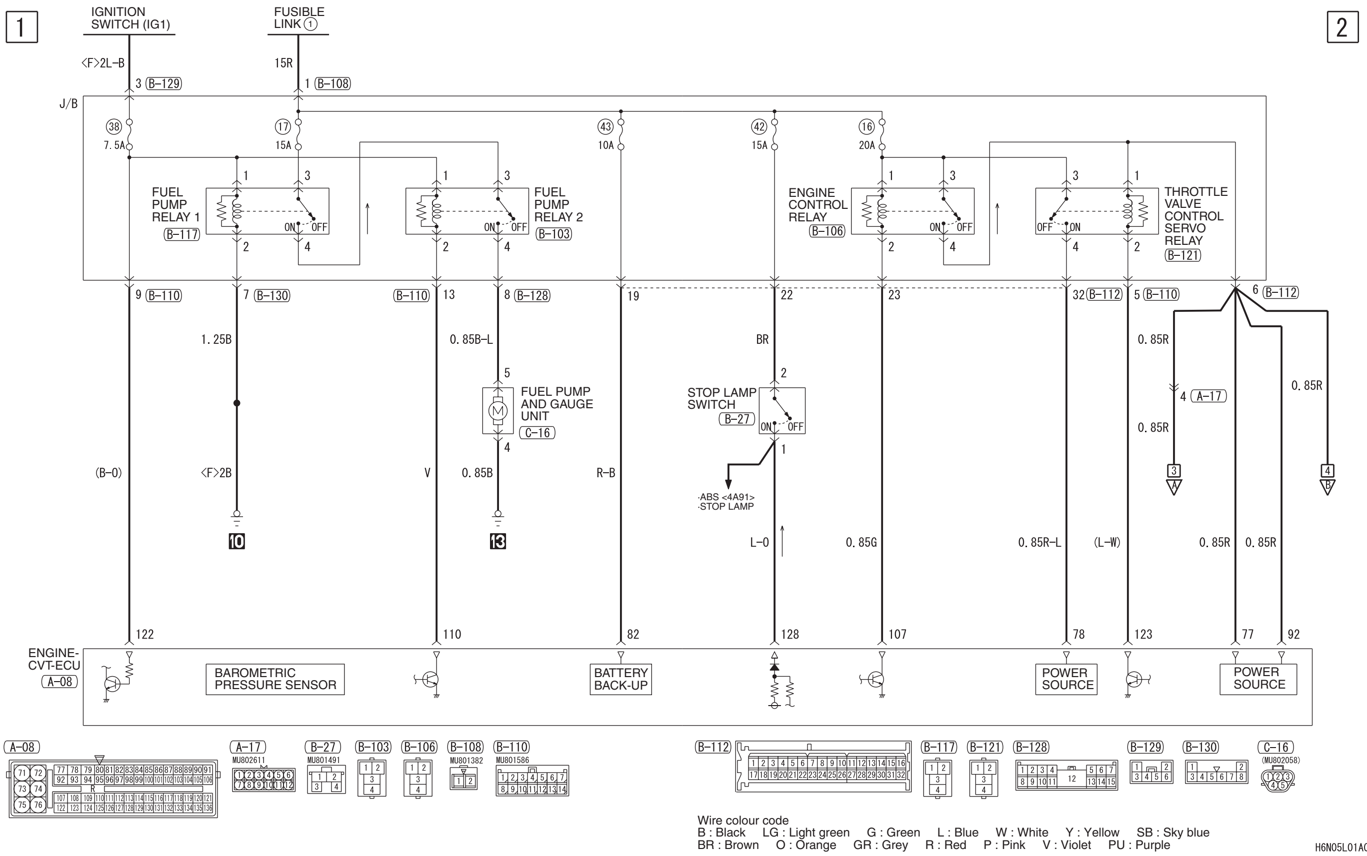


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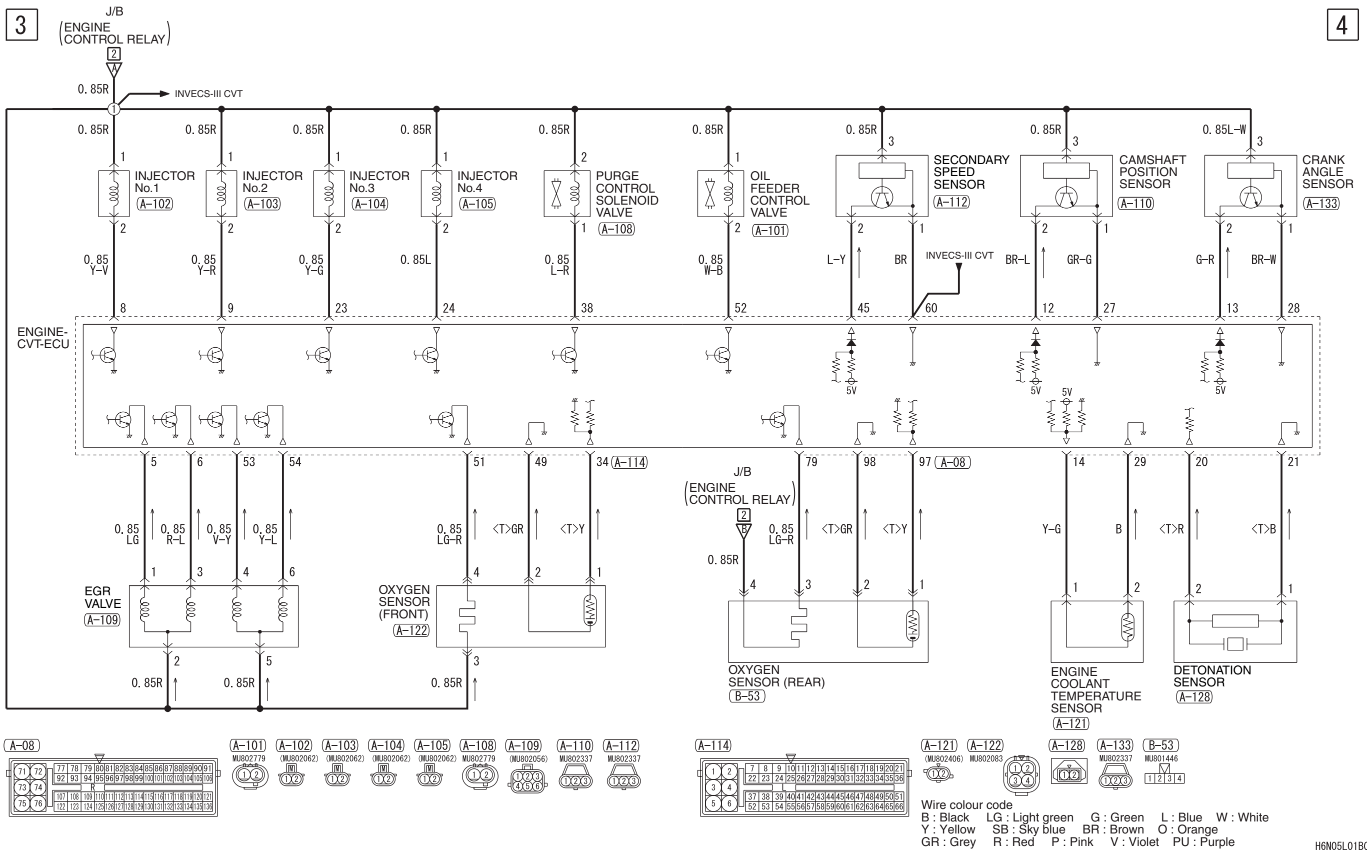
# ENGINE CONTROL SYSTEM <4A91-CVT>

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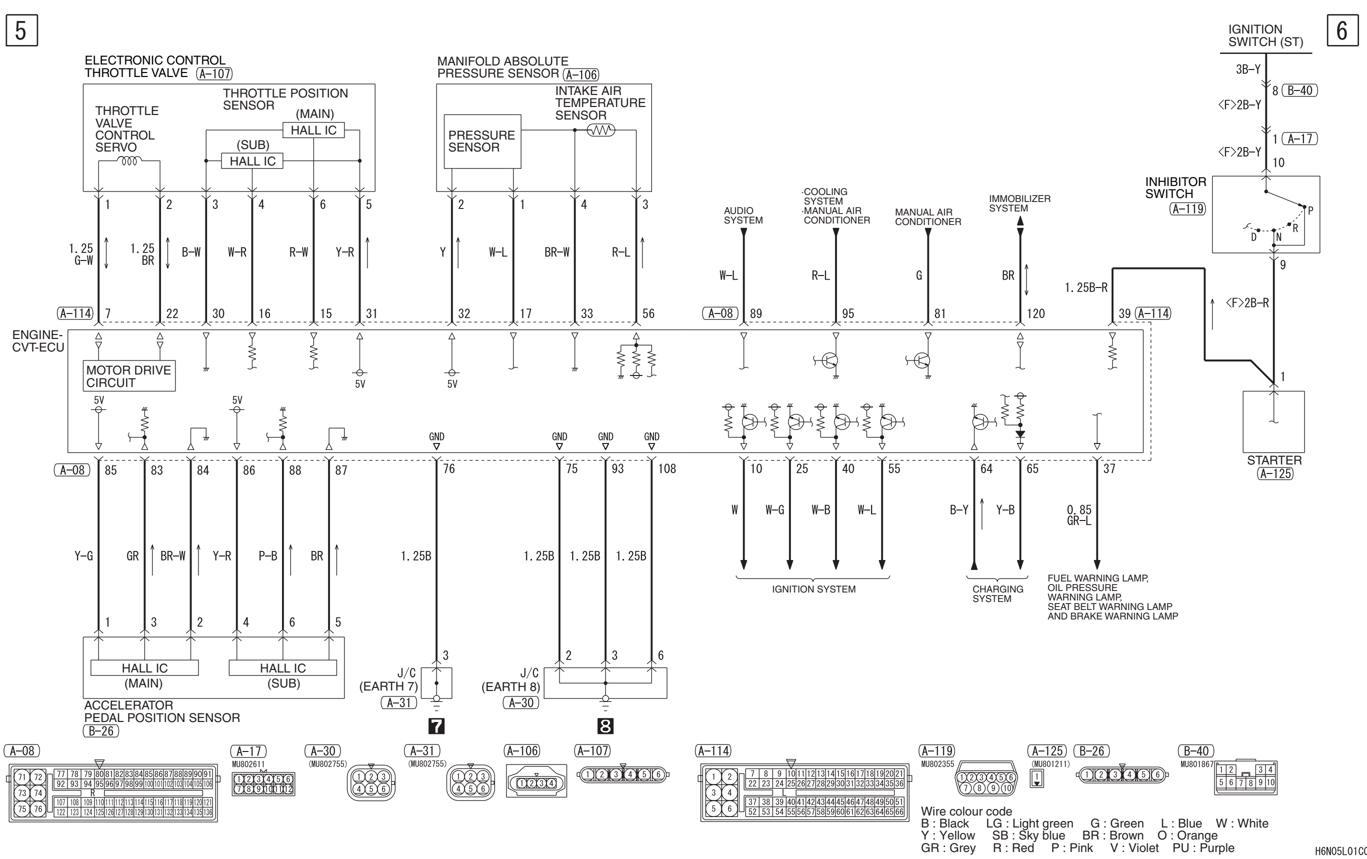


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## ENGINE CONTROL SYSTEM <4A91-CVT> (CONTINUED)

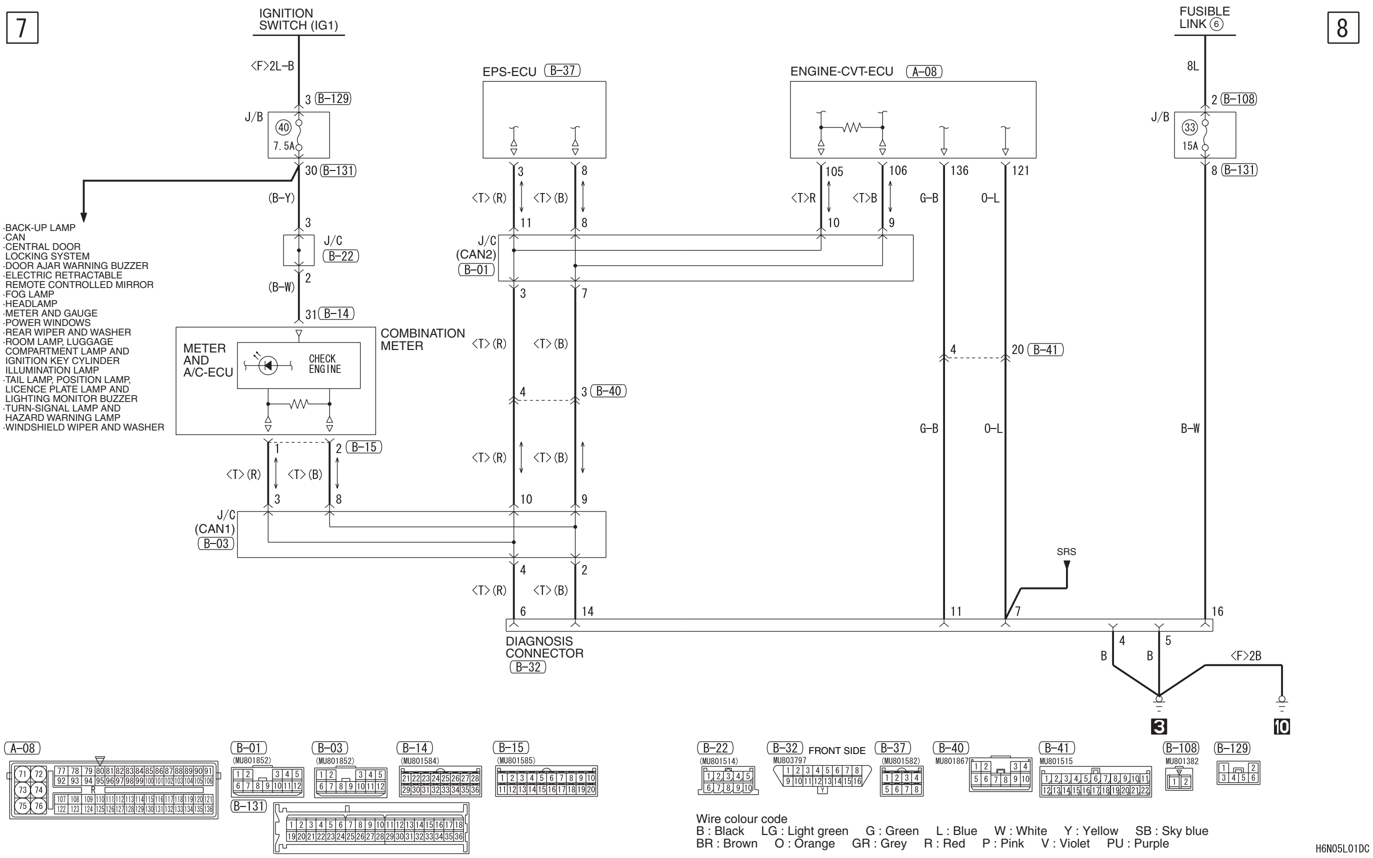



## ENGINE CONTROL SYSTEM <4A91-CVT> (CONTINUED)



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## ENGINE CONTROL SYSTEM <4A91-CVT> (CONTINUED)

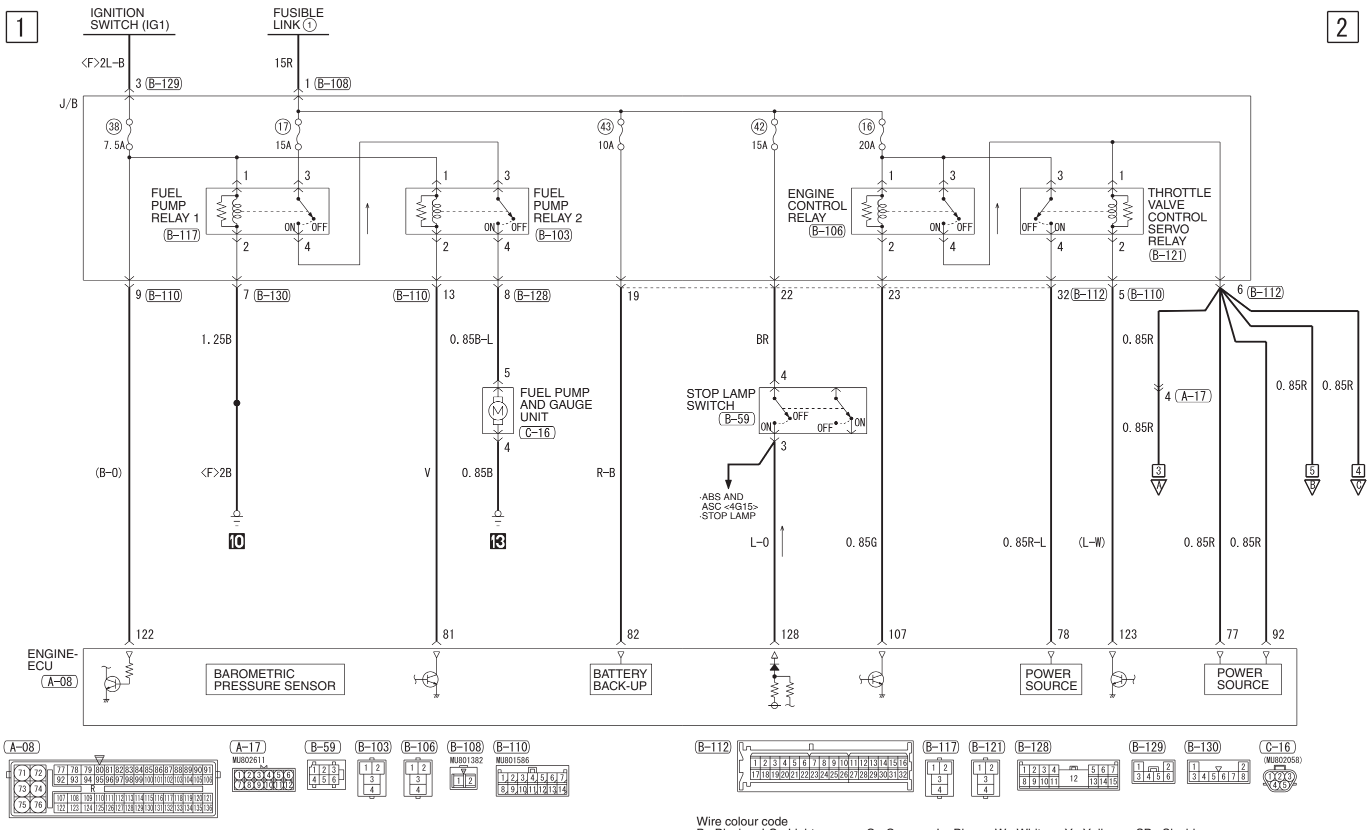


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# ENGINE CONTROL SYSTEM <4G15>

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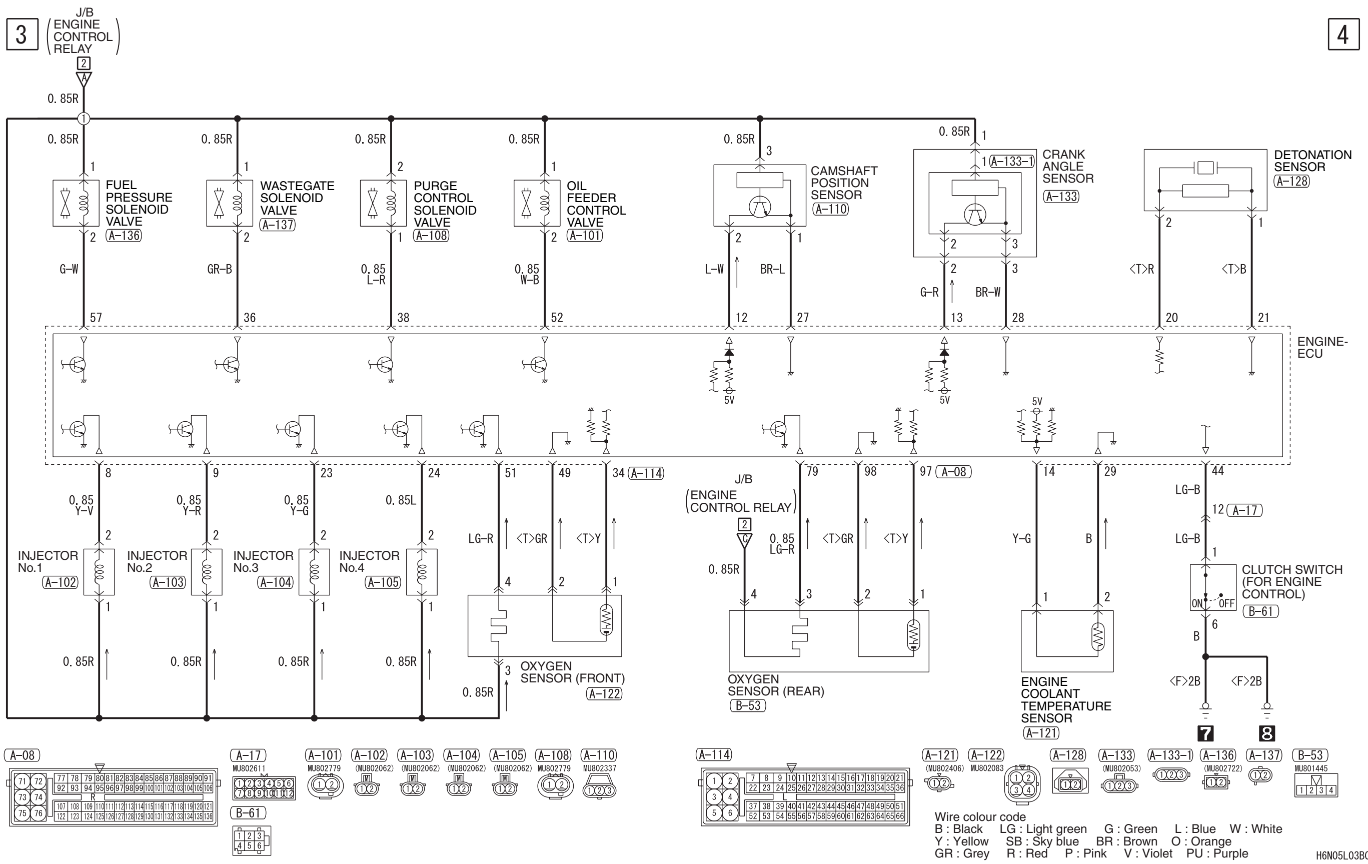

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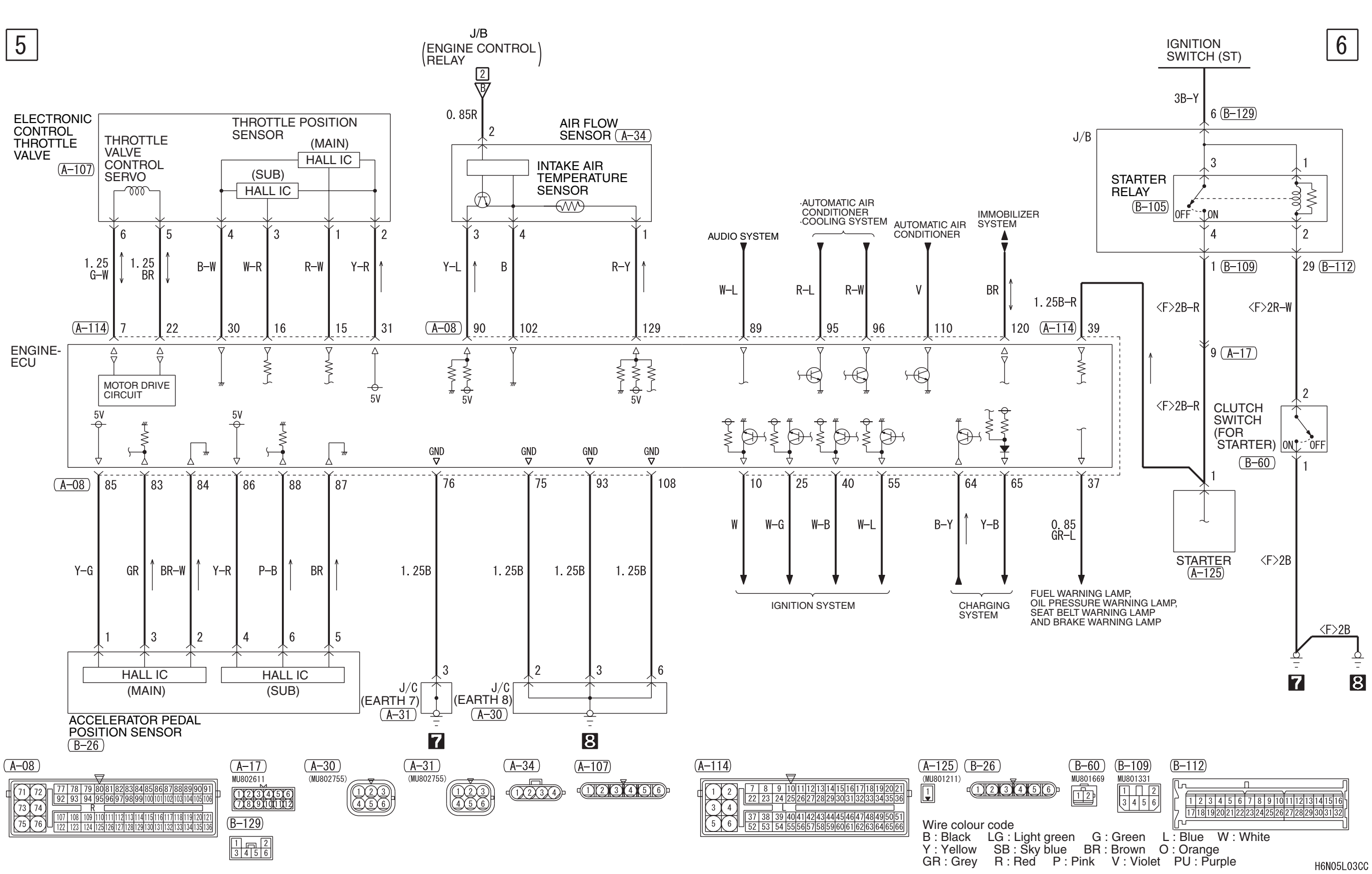
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## ENGINE CONTROL SYSTEM <4G15> (CONTINUED)



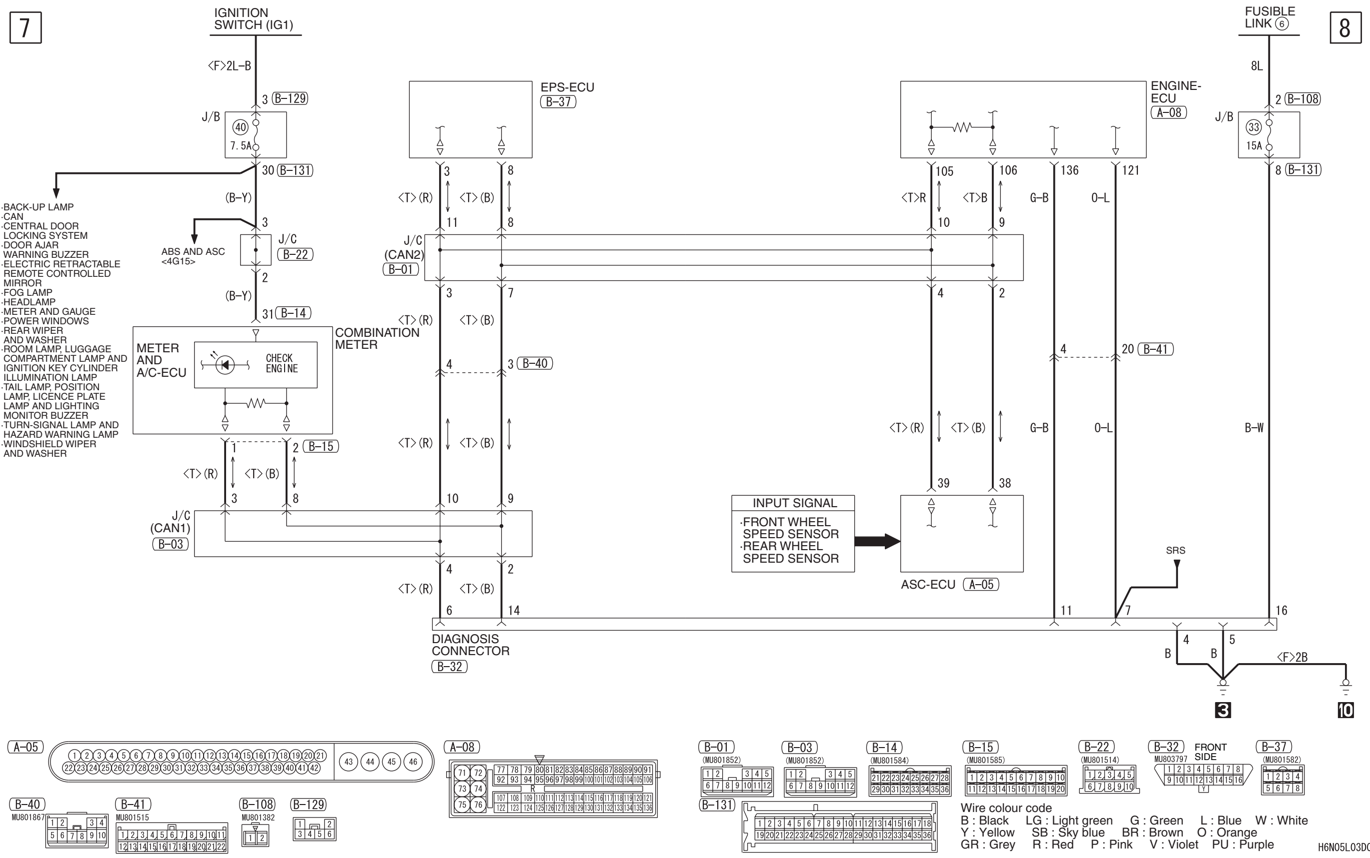

## ENGINE CONTROL SYSTEM <4G15> (CONTINUED)



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## ENGINE CONTROL SYSTEM <4G15> (CONTINUED)



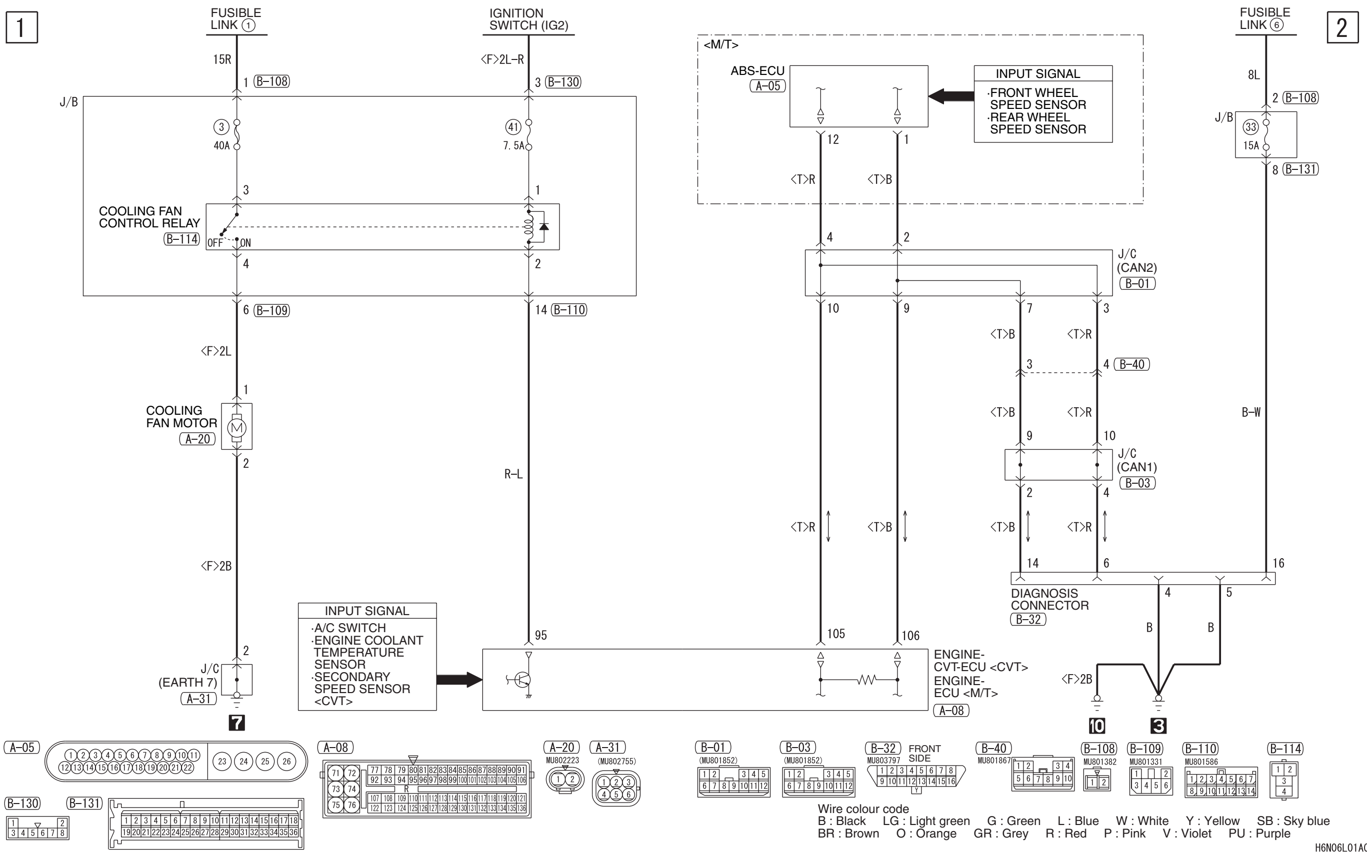
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# COOLING SYSTEM

## COOLING SYSTEM <4A91>

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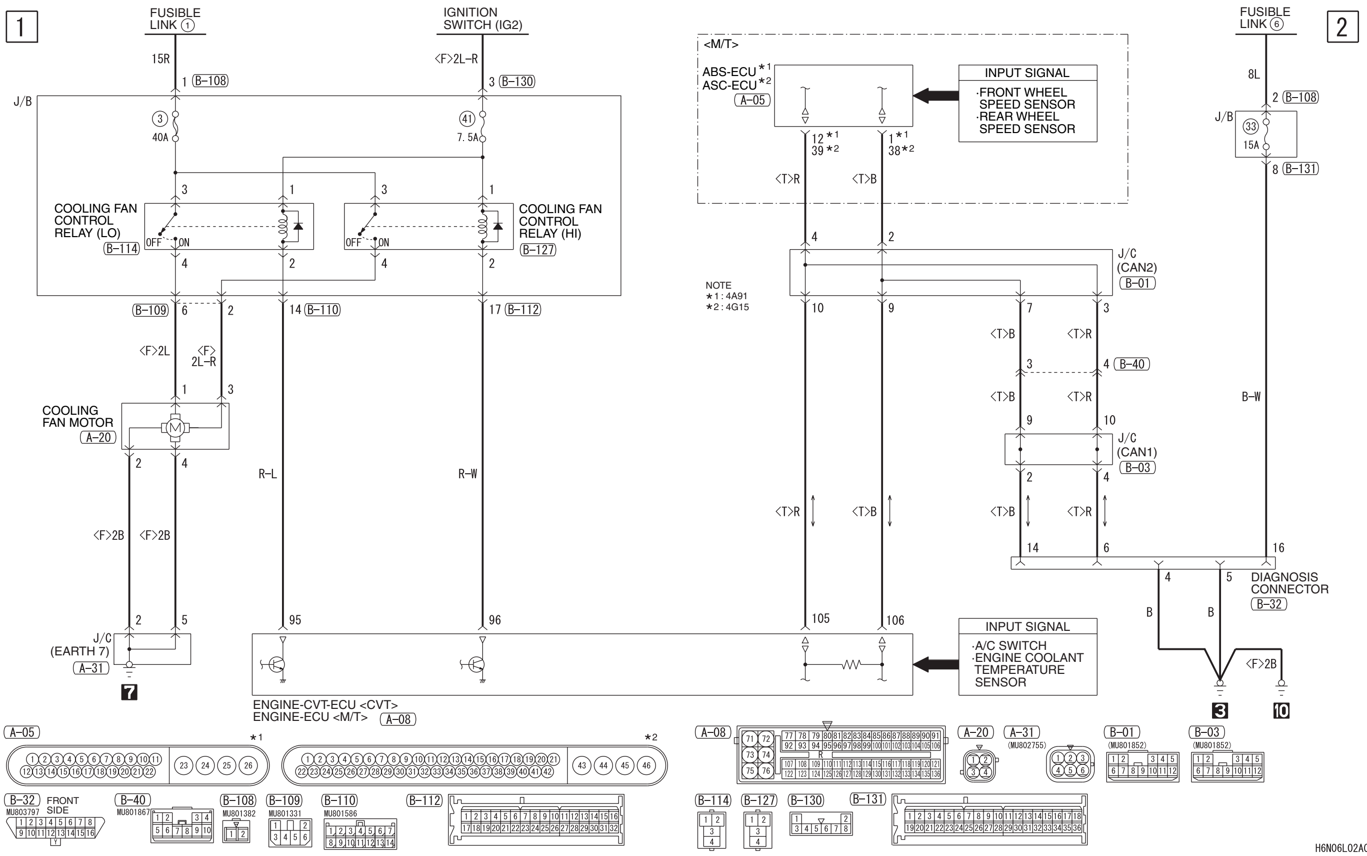


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# COOLING SYSTEM <4G15>

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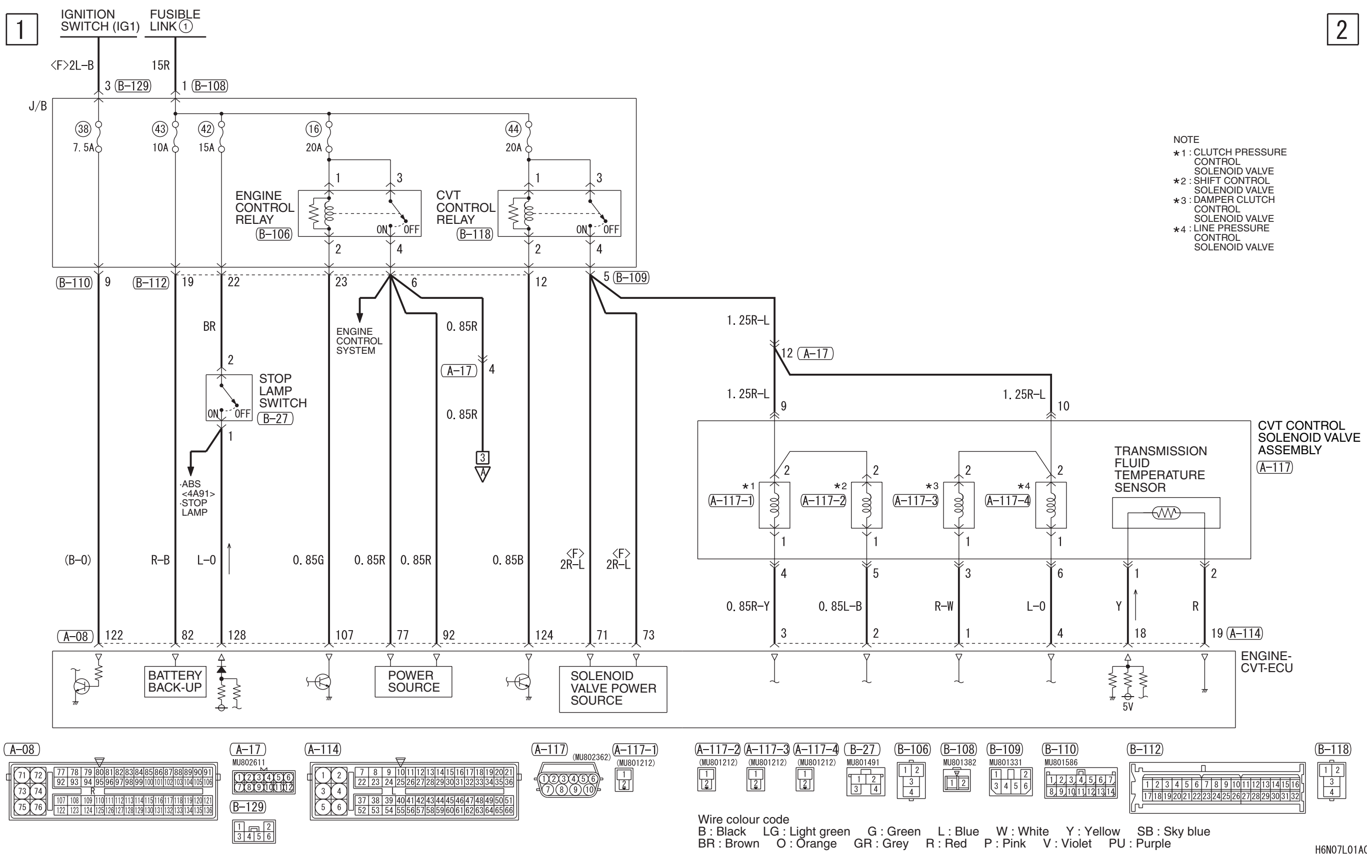


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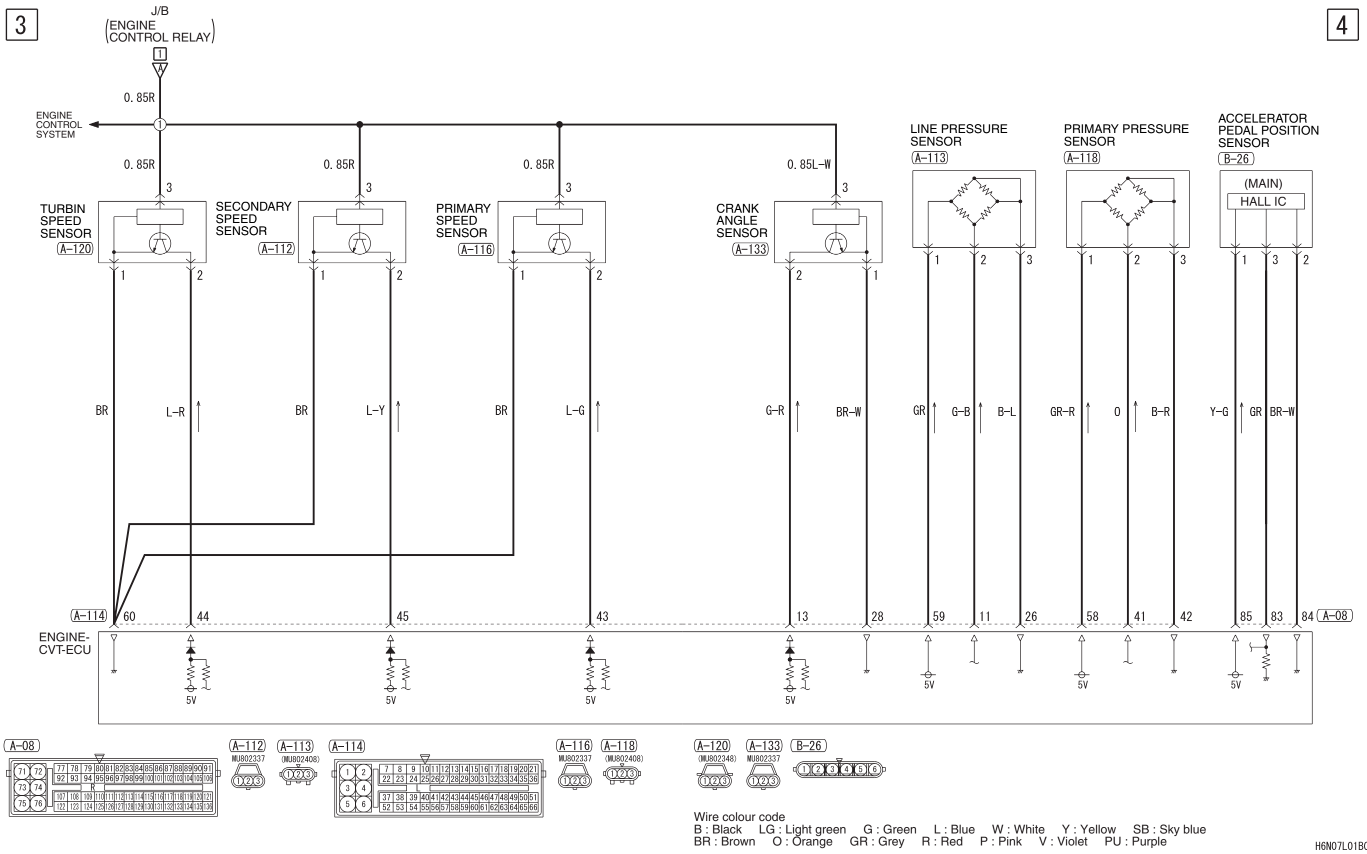
# INVECS-III CVT

M1901023100170

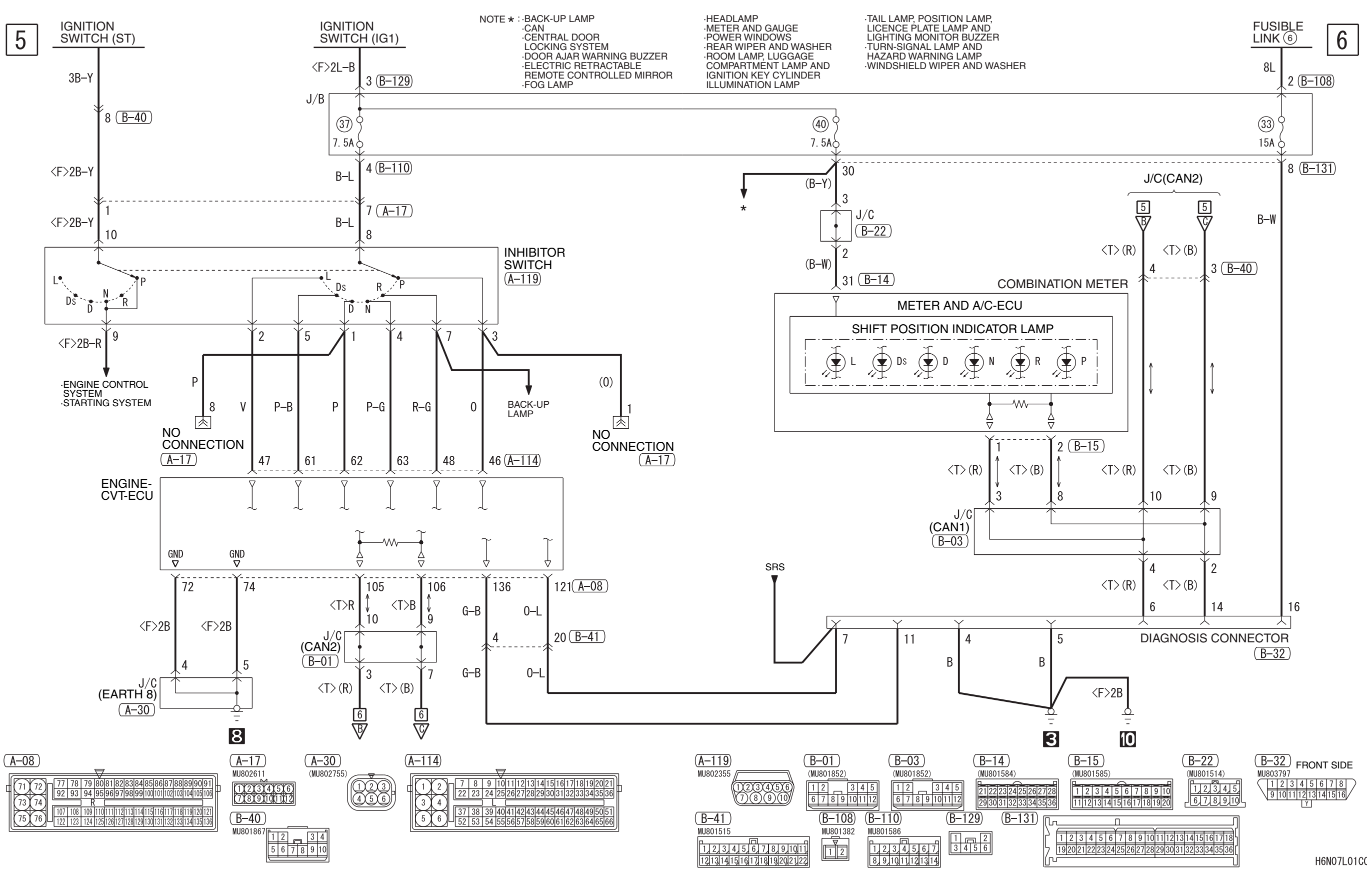


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## INVECS-III CVT (CONTINUED)



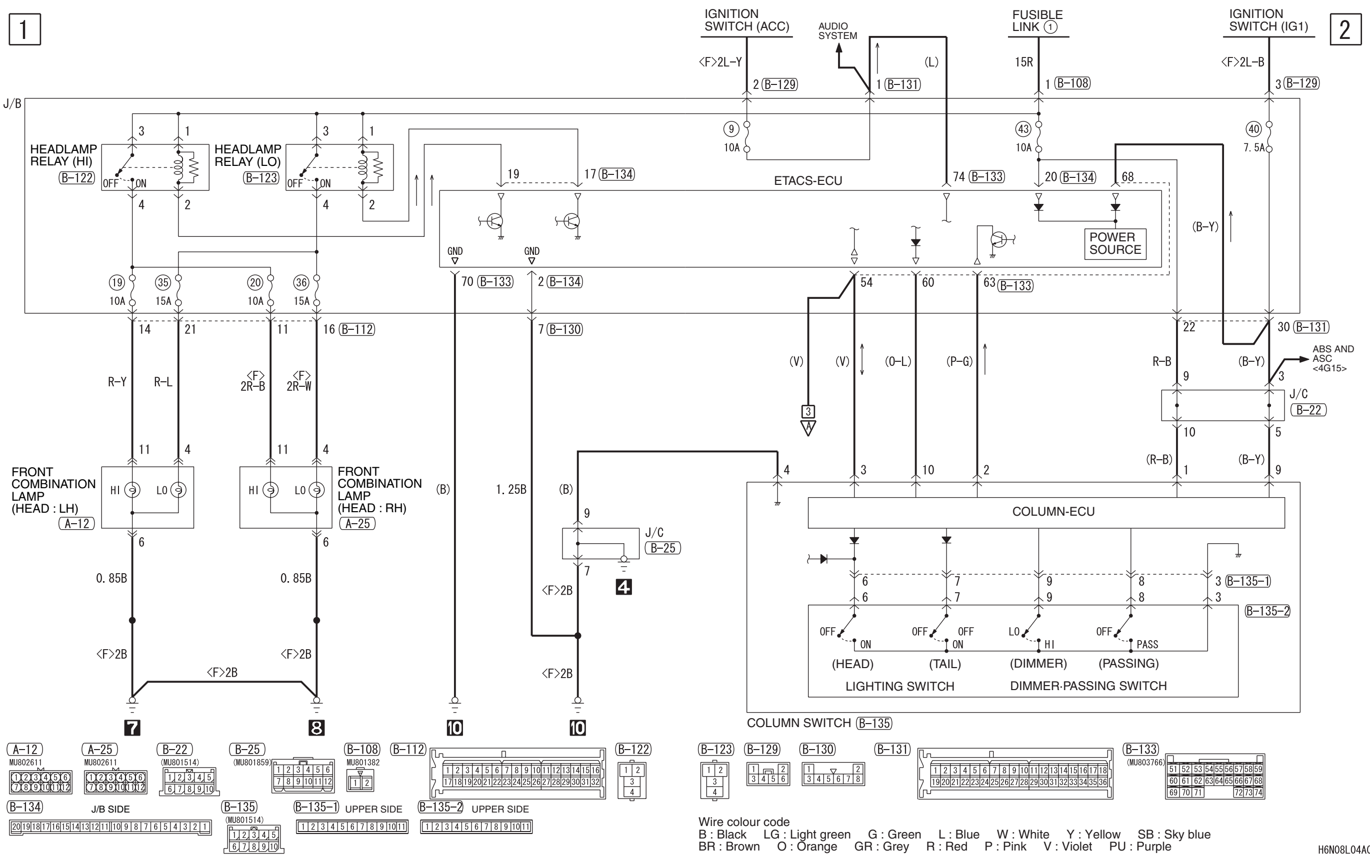

## INVECS-III CVT (CONTINUED)



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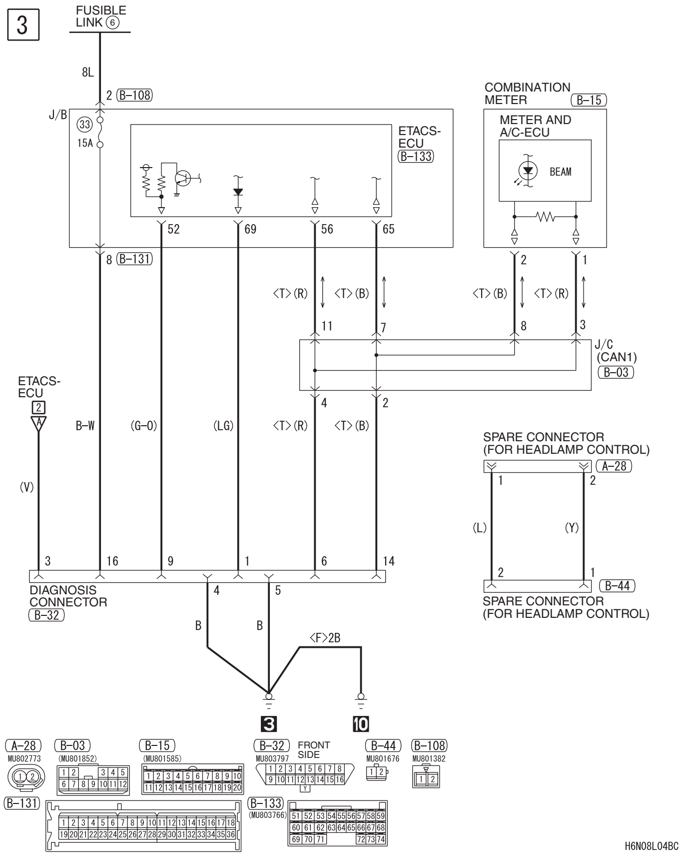
# HEADLAMP

M1901001502886



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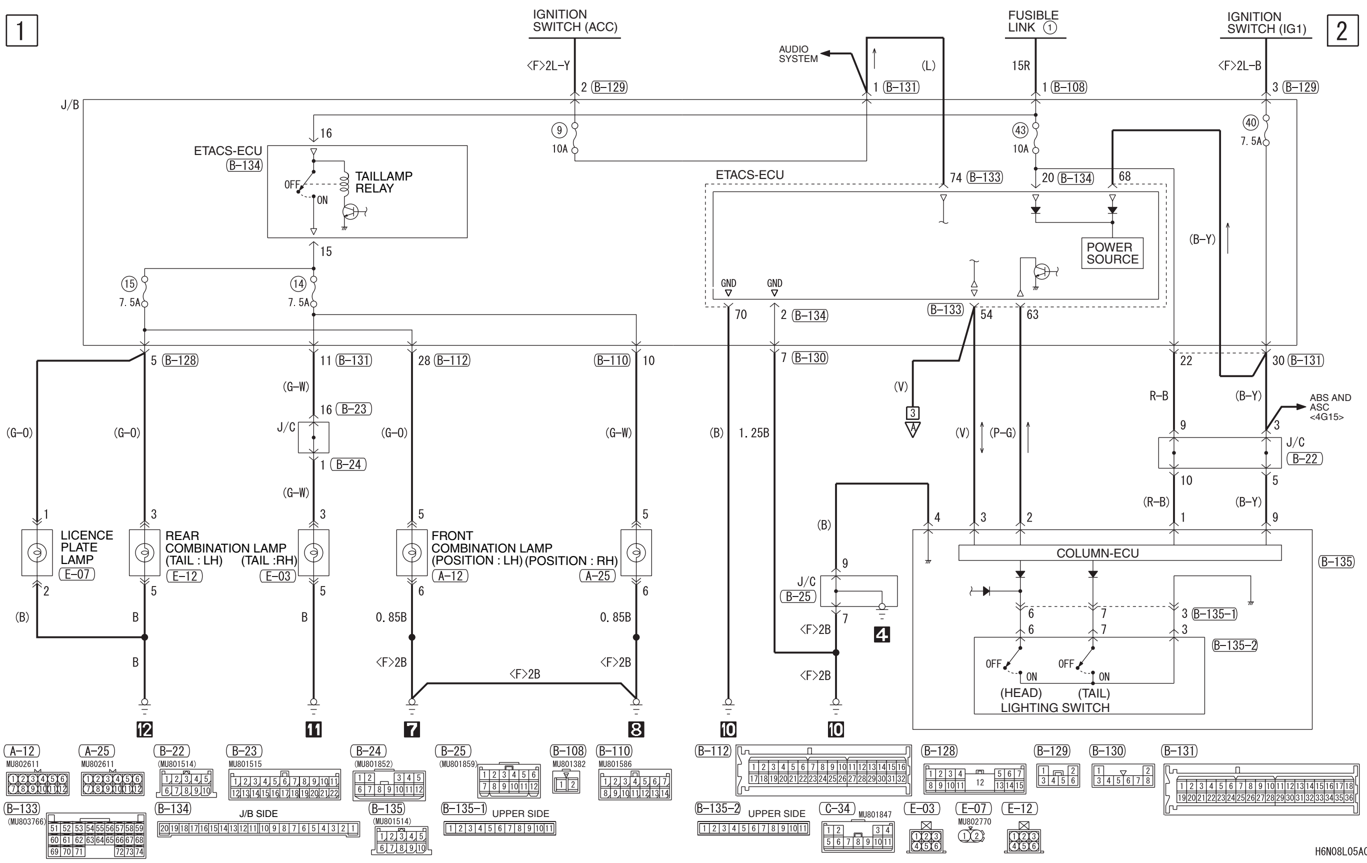
## HEADLAMP (CONTINUED)



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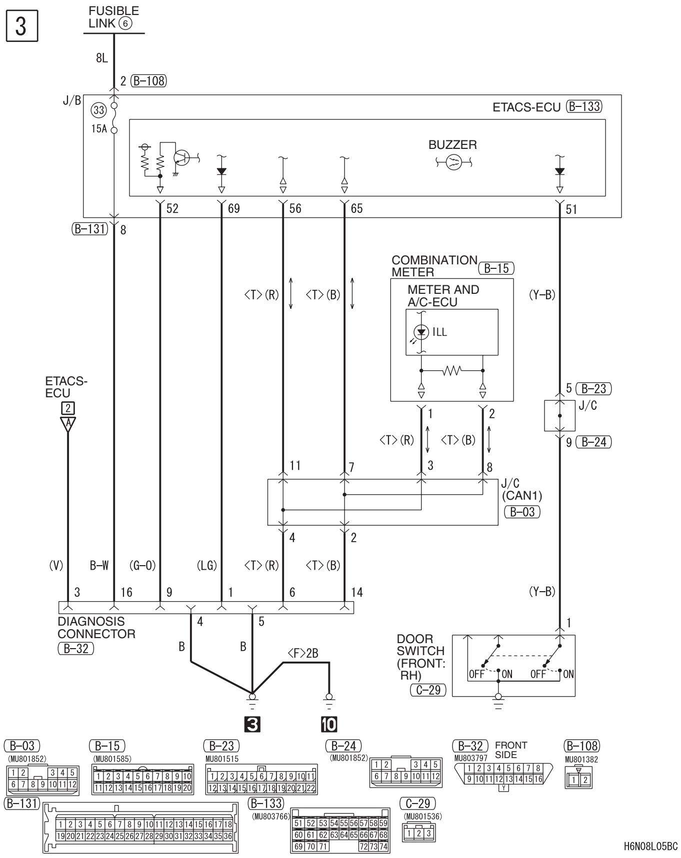
# TAIL LAMP, POSITION LAMP, LICENCE PLATE LAMP AND LIGHTING MONITOR BUZZER

M1901001701445



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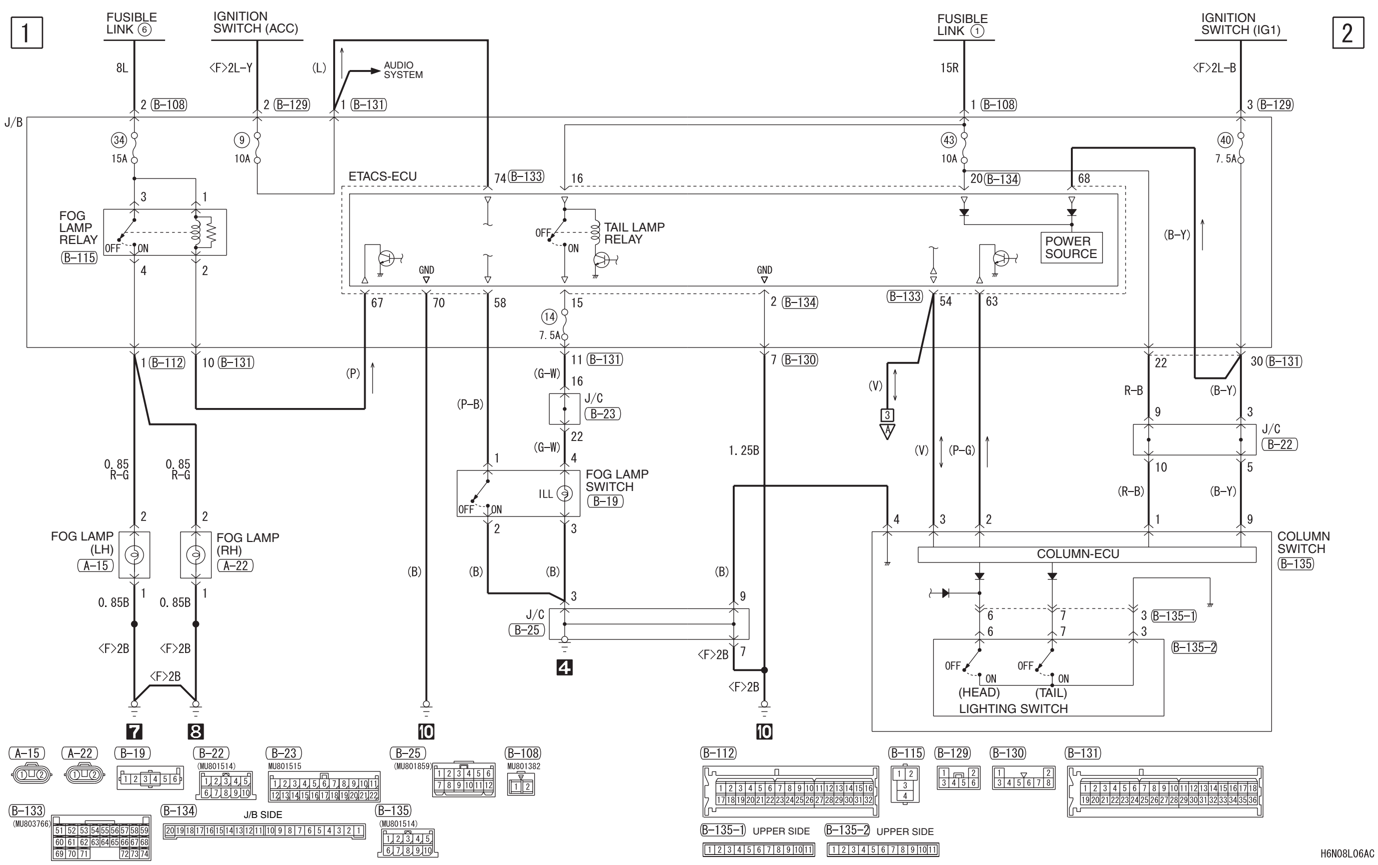
## TAIL LAMP, POSITION LAMP, LICENCE PLATE LAMP AND LIGHTING MONITOR BUZZER (CONTINUED)



# FOG LAMP

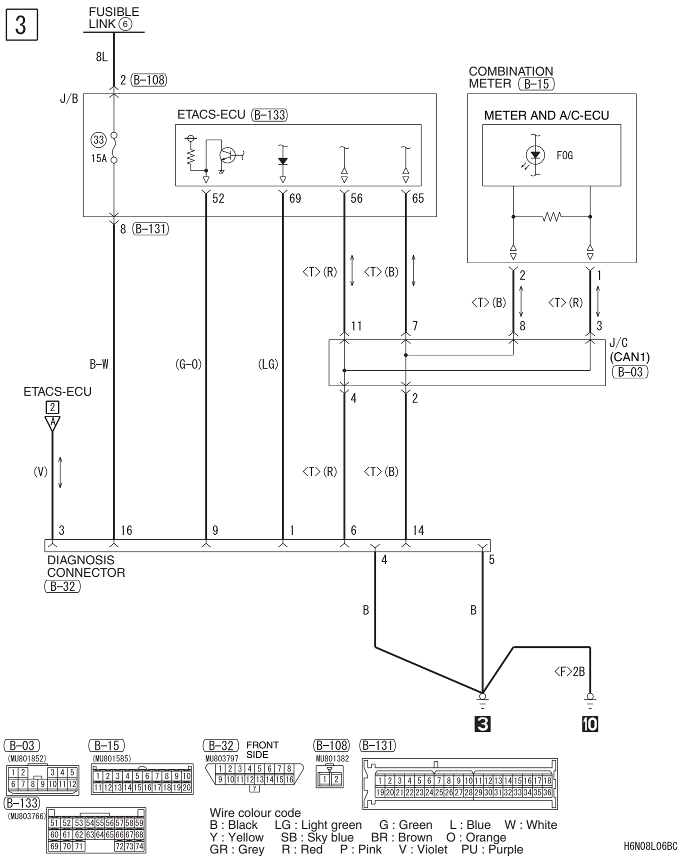
## FOG LAMP <4A91>

M1901001801066



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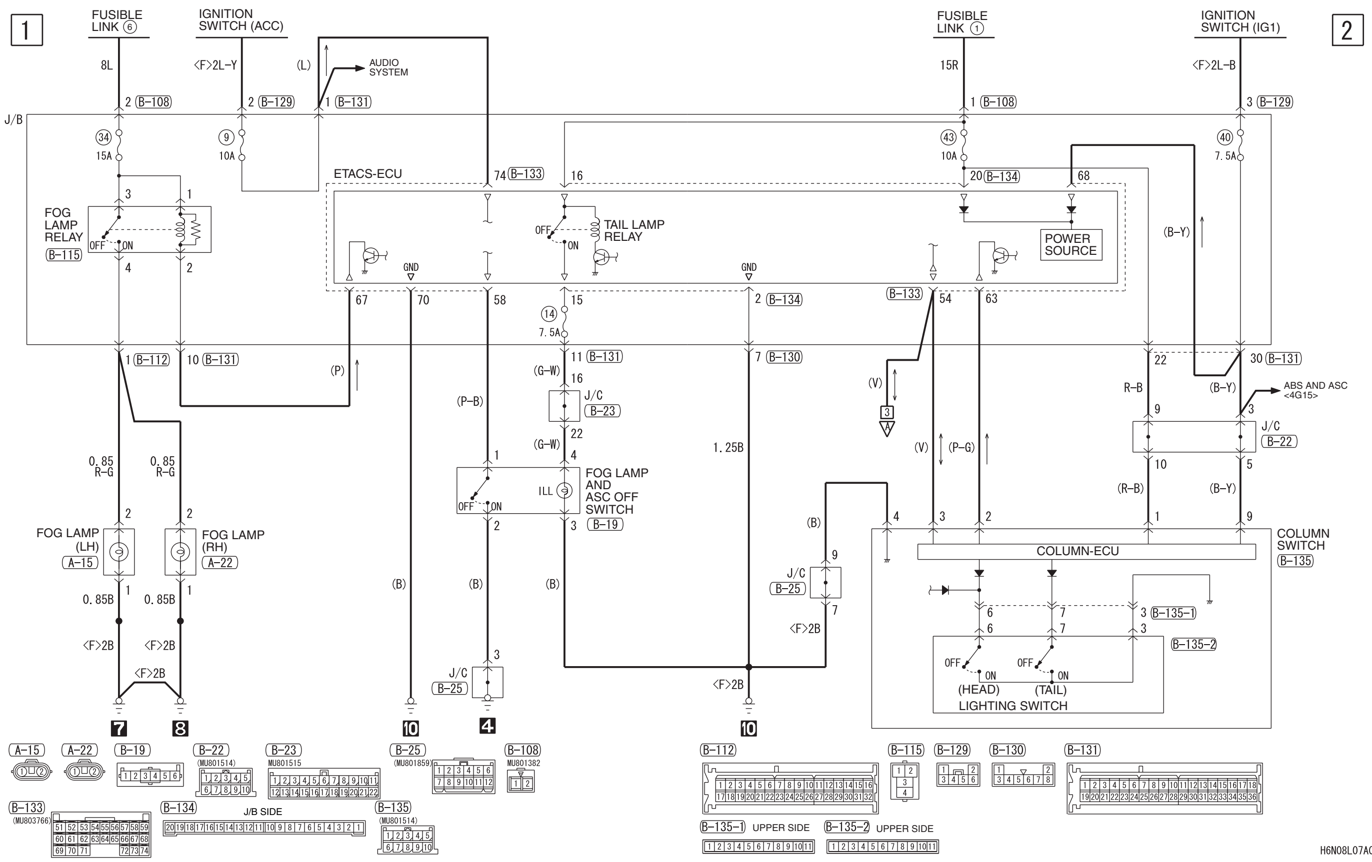
## FOG LAMP <4A91> (CONTINUED)



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# FOG LAMP <4G15>

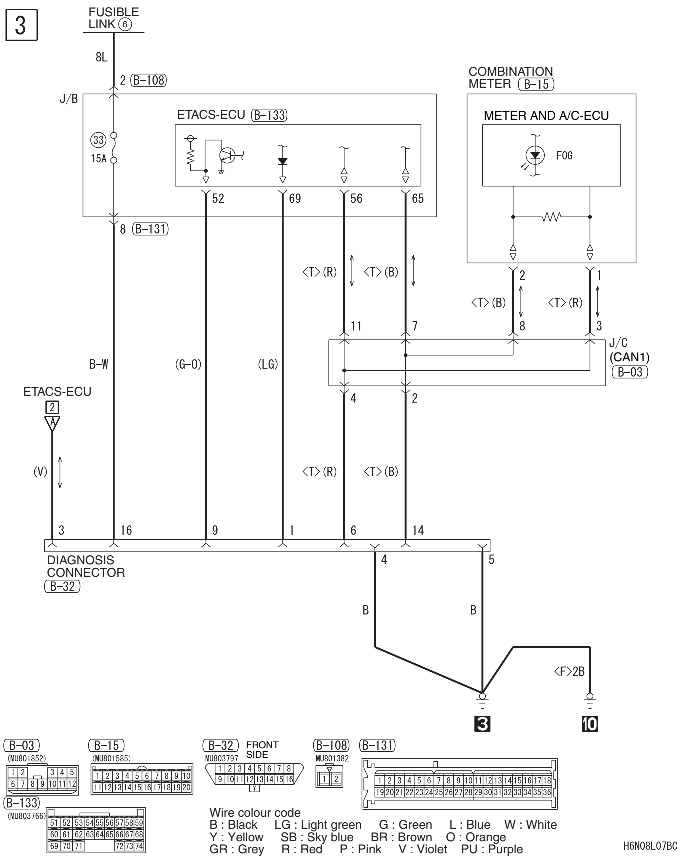
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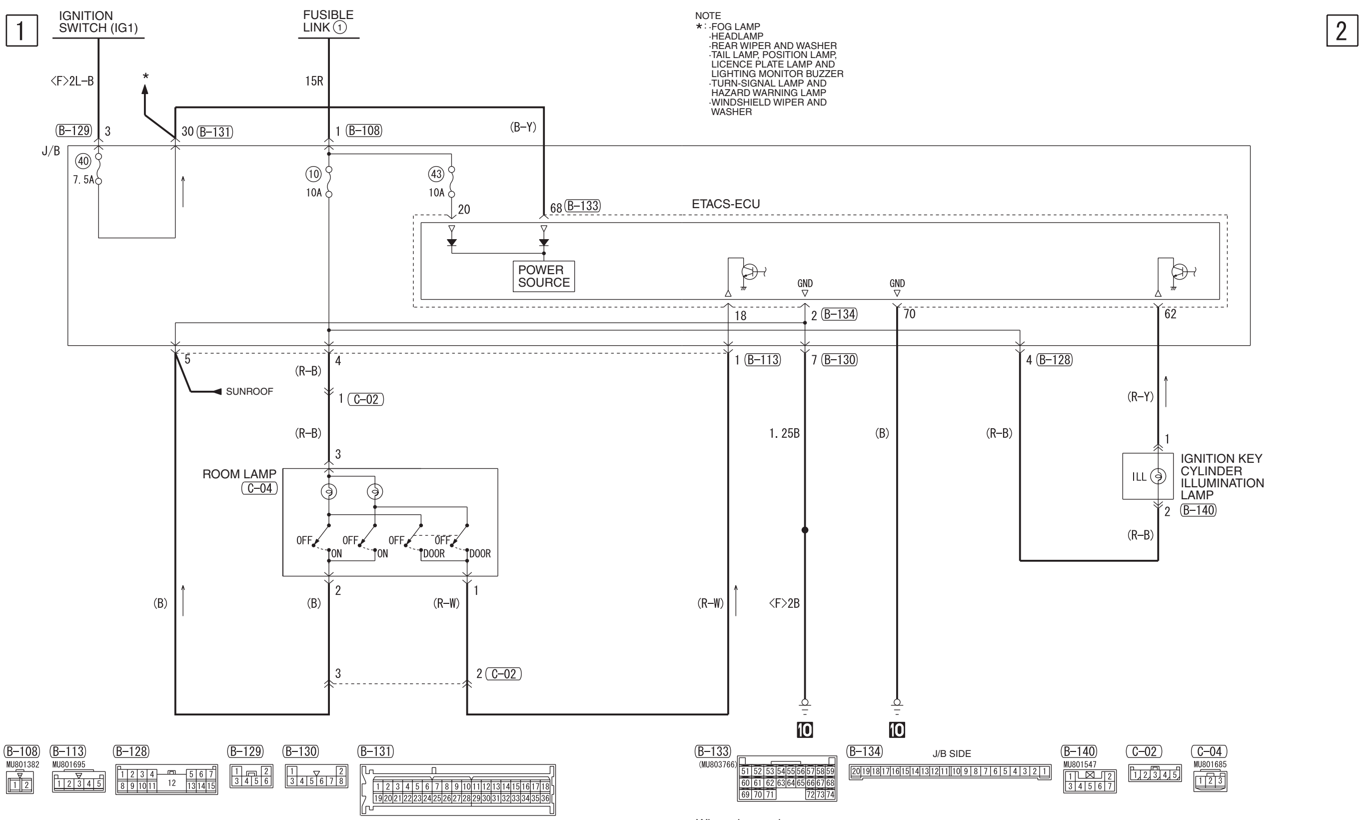
## FOG LAMP <4G15> (CONTINUED)



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# ROOM LAMP, LUGGAGE COMPARTMENT LAMP AND IGNITION KEY CYLINDER ILLUMINATION LAMP

M1901017300357

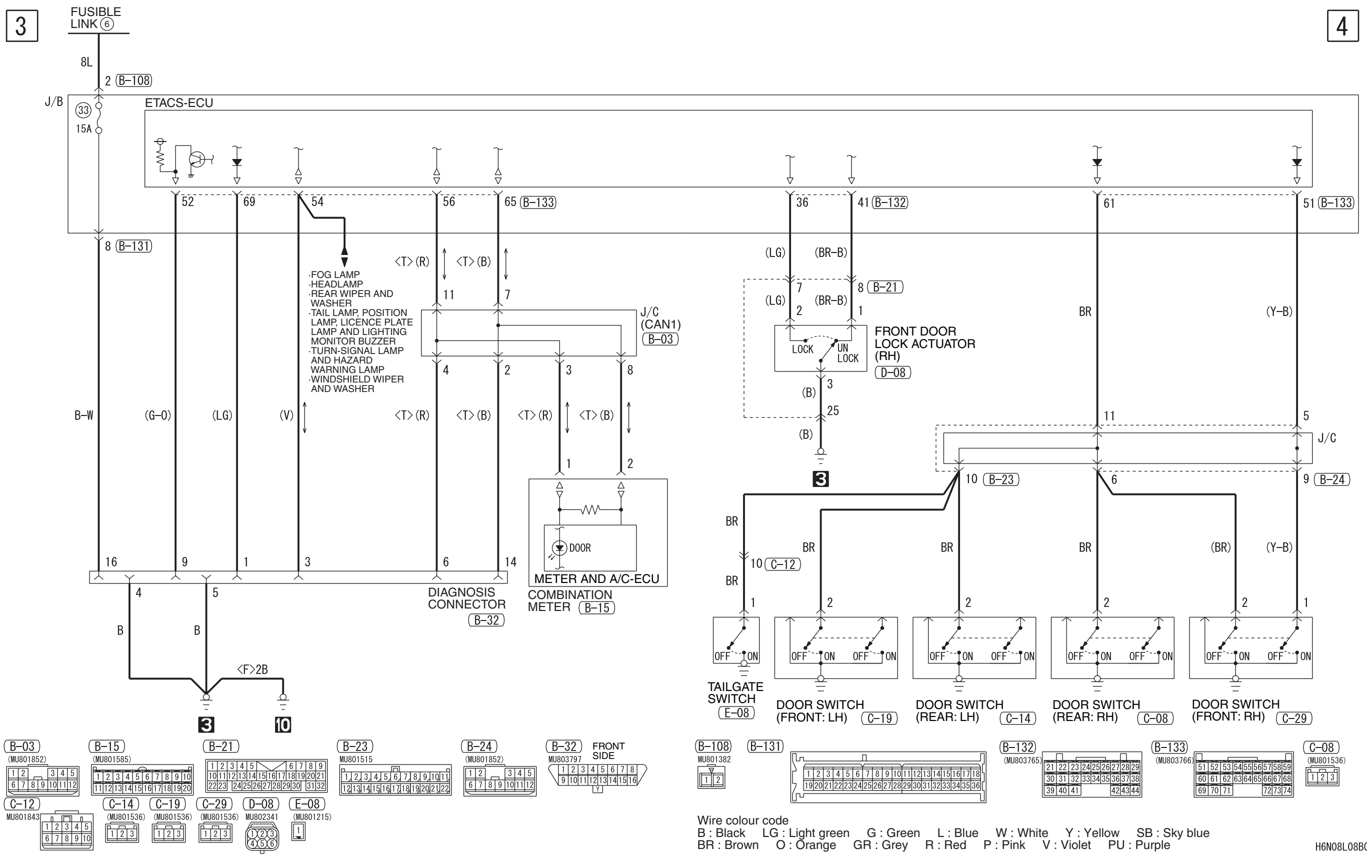



Wire colour code
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BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

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# ROOM LAMP, LUGGAGE COMPARTMENT LAMP AND IGNITION KEY CYLINDER ILLUMINATION LAMP (CONTINUED)



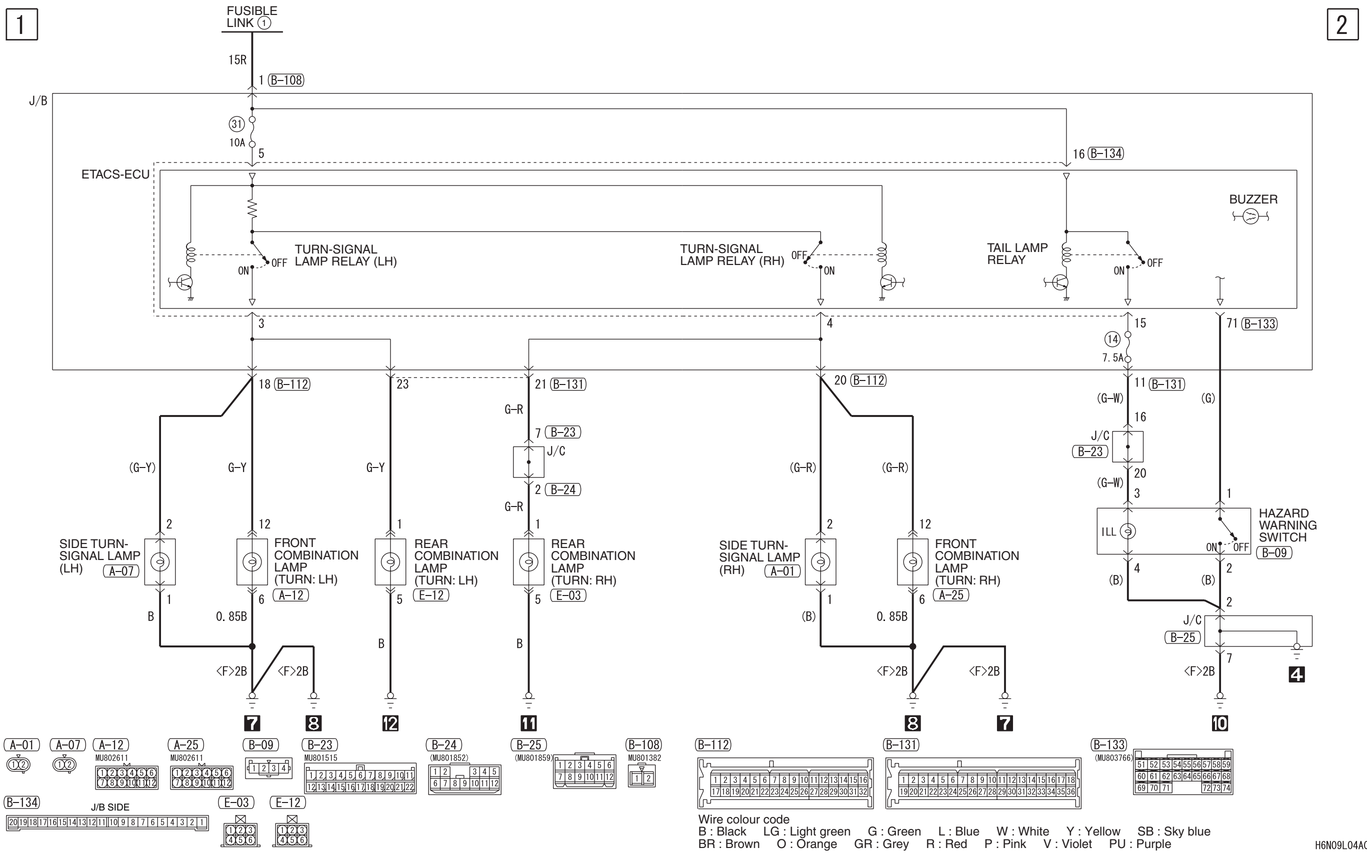

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BR : Brown  O : Orange  GR : Grey  R : Red  P : Pink  V : Violet  PU : Purple

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# TURN-SIGNAL LAMP AND HAZARD WARNING LAMP

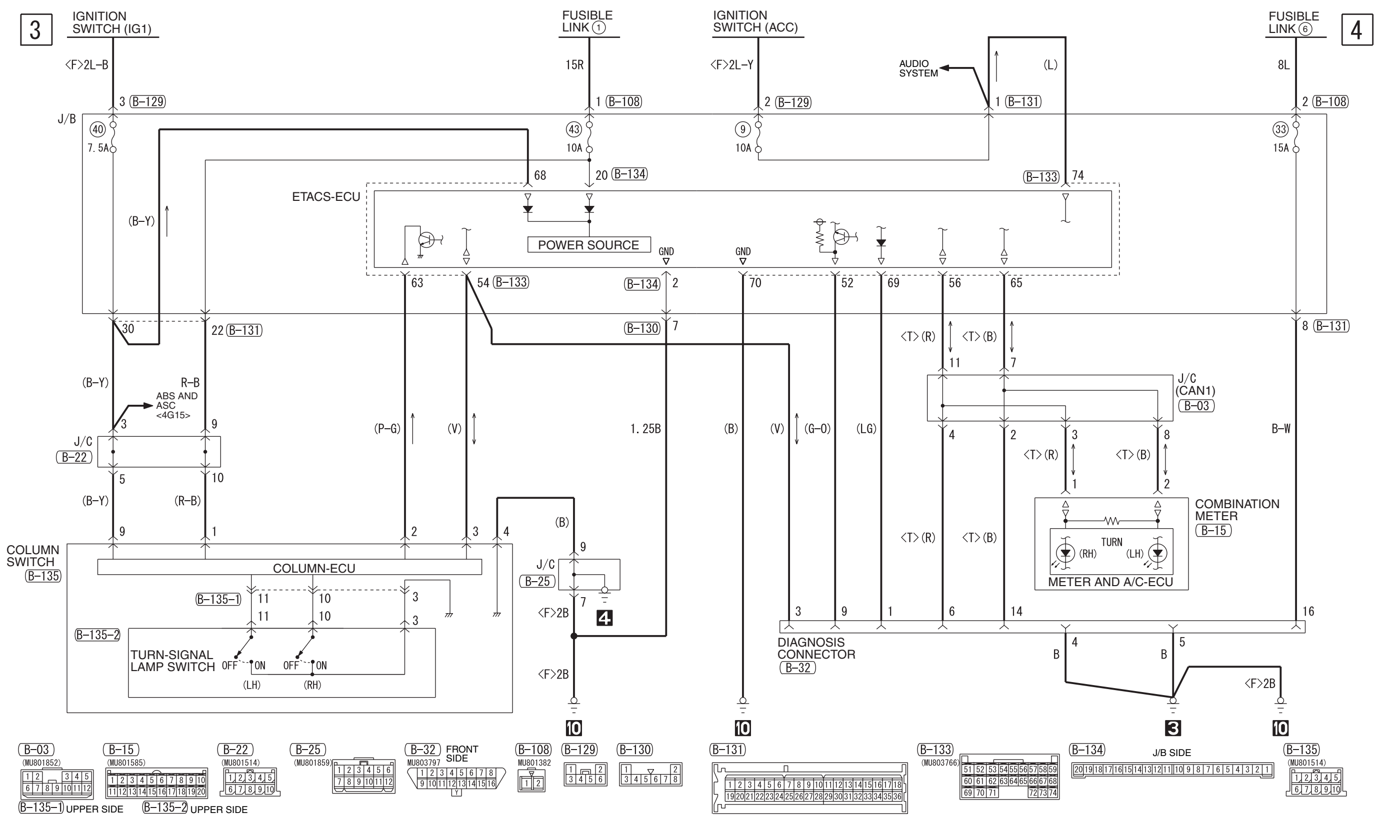
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## TURN-SIGNAL LAMP AND HAZARD WARNING LAMP (CONTINUED)



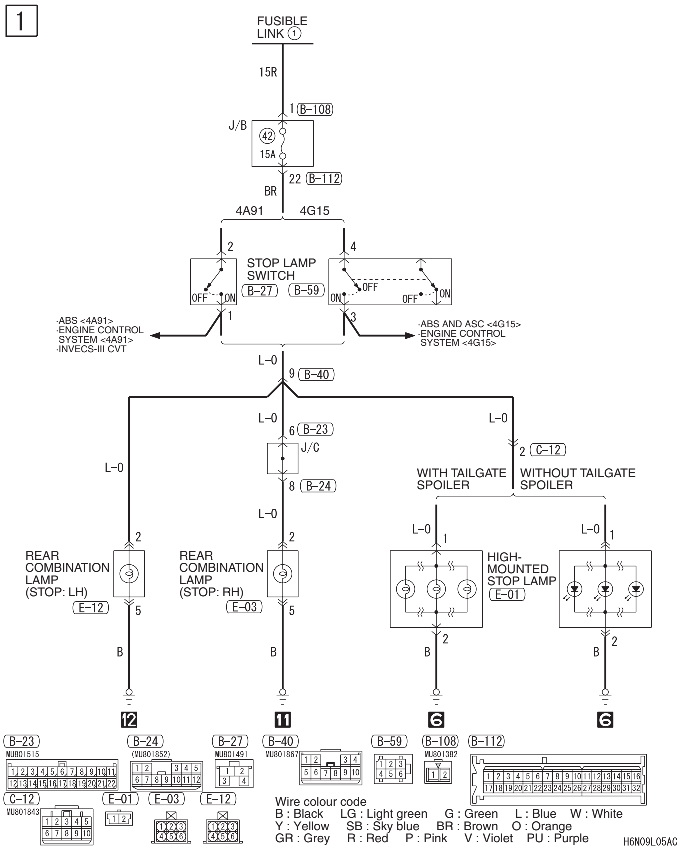

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# STOP LAMP

M1901003002445

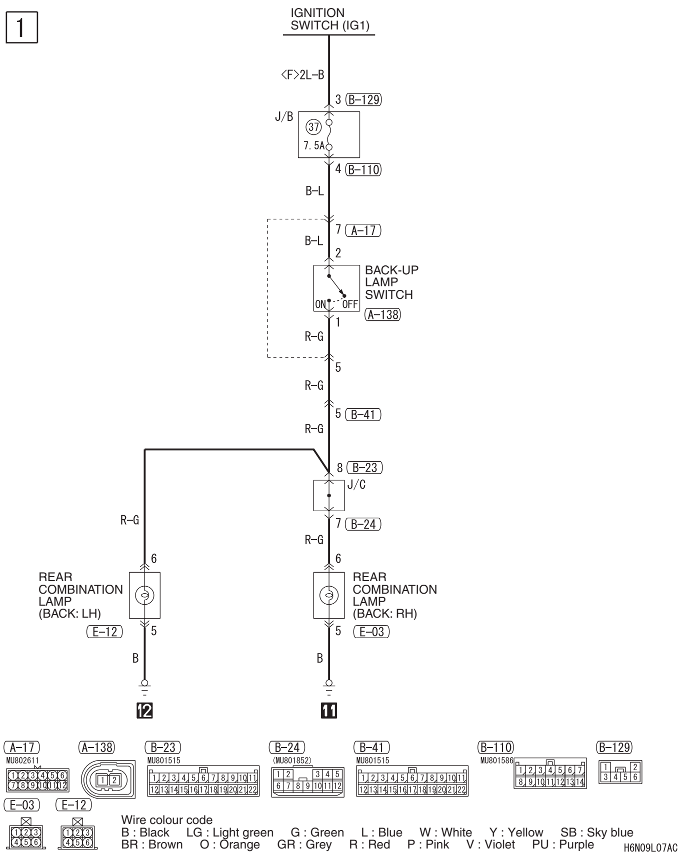


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# BACK-UP LAMP

## BACK-UP LAMP <M/T>

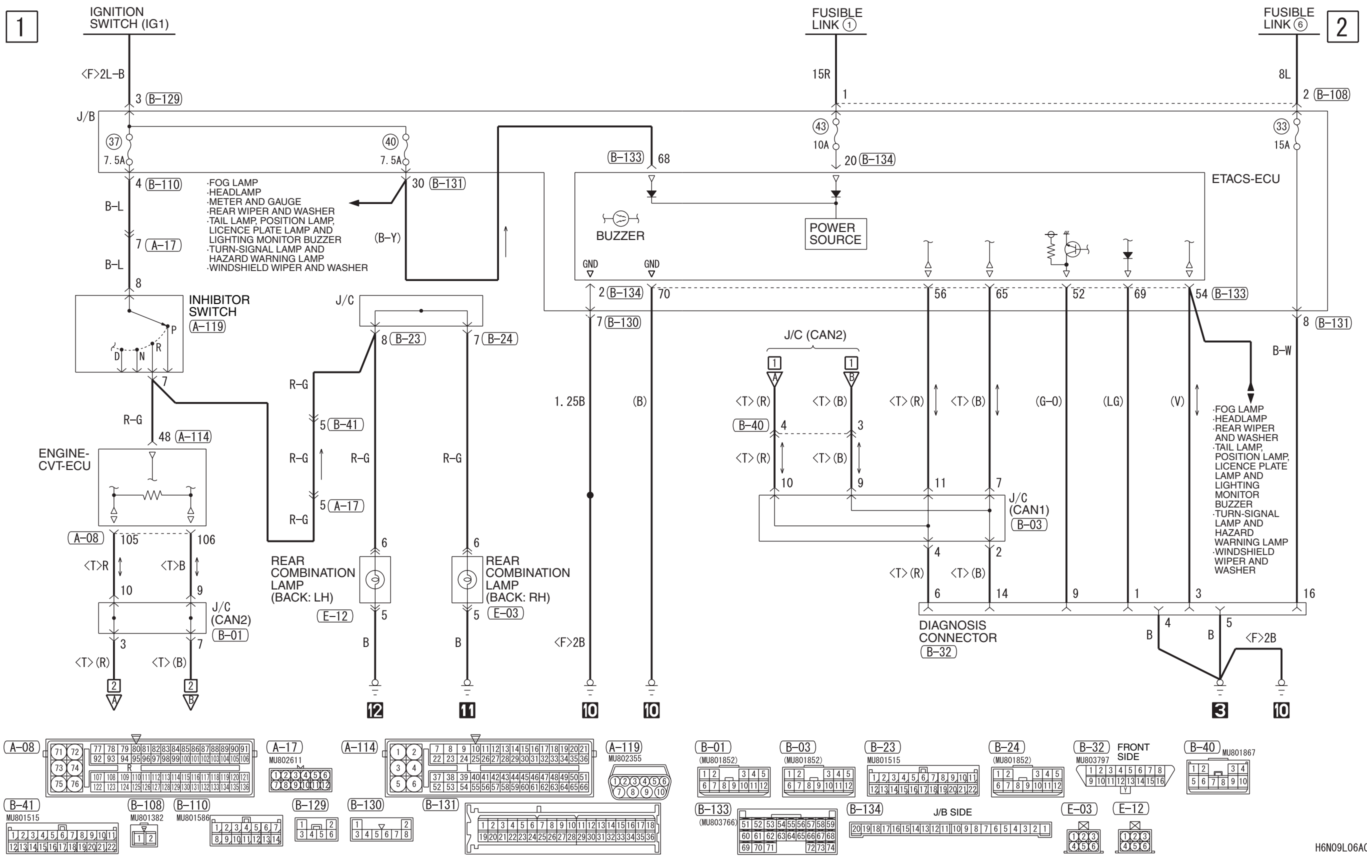
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# BACK-UP LAMP <CVT>

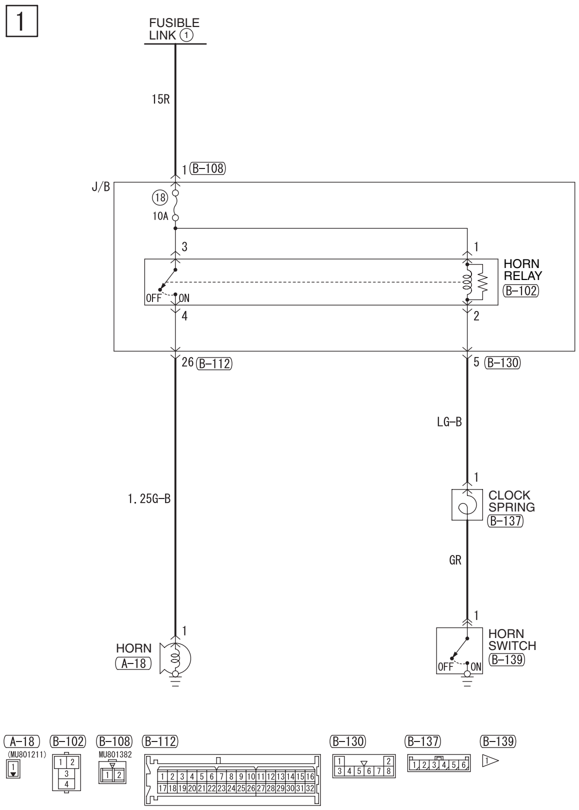
M1901003102583



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# HORN

M1901003301595



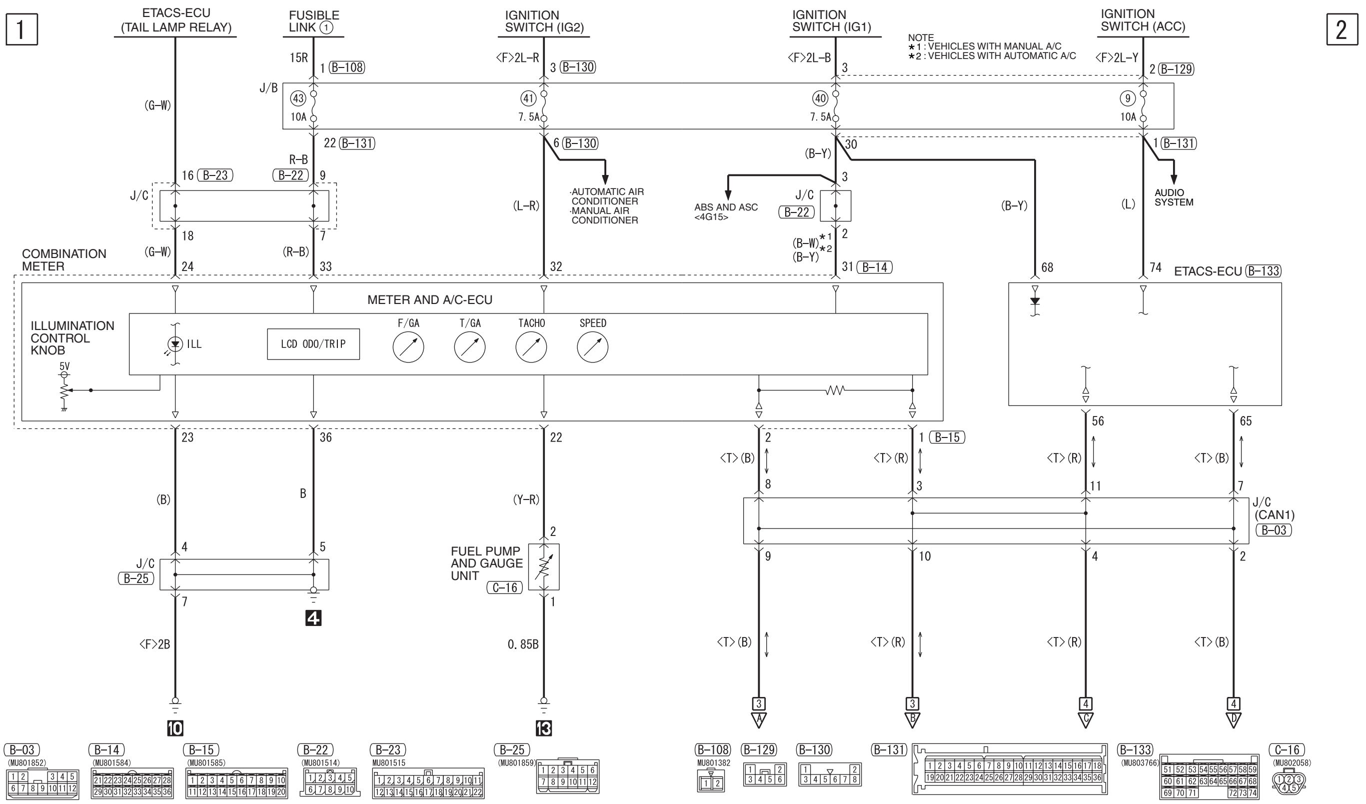

Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

H6N09L03AC

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# METER AND GAUGE

M1901003502837

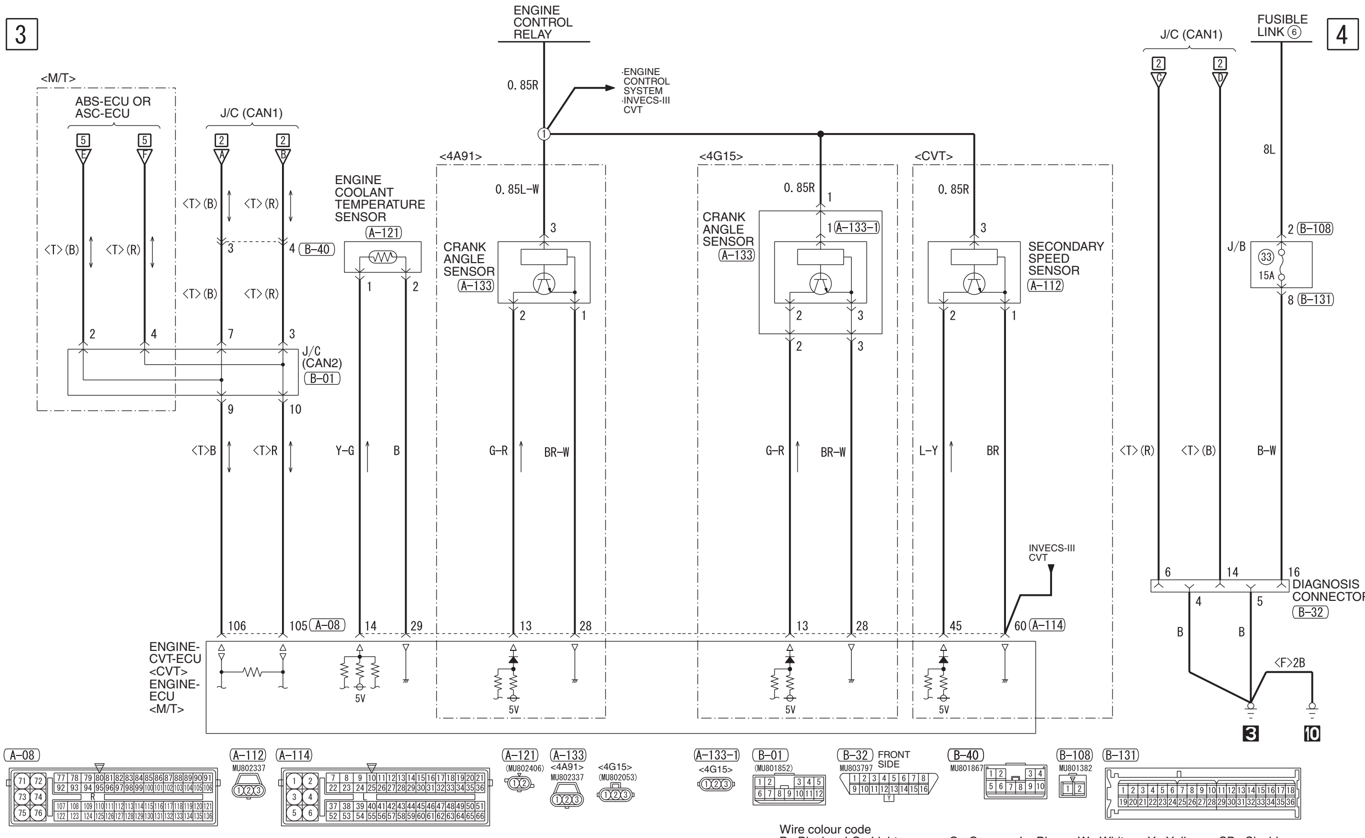



Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
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H6N1OL02AC

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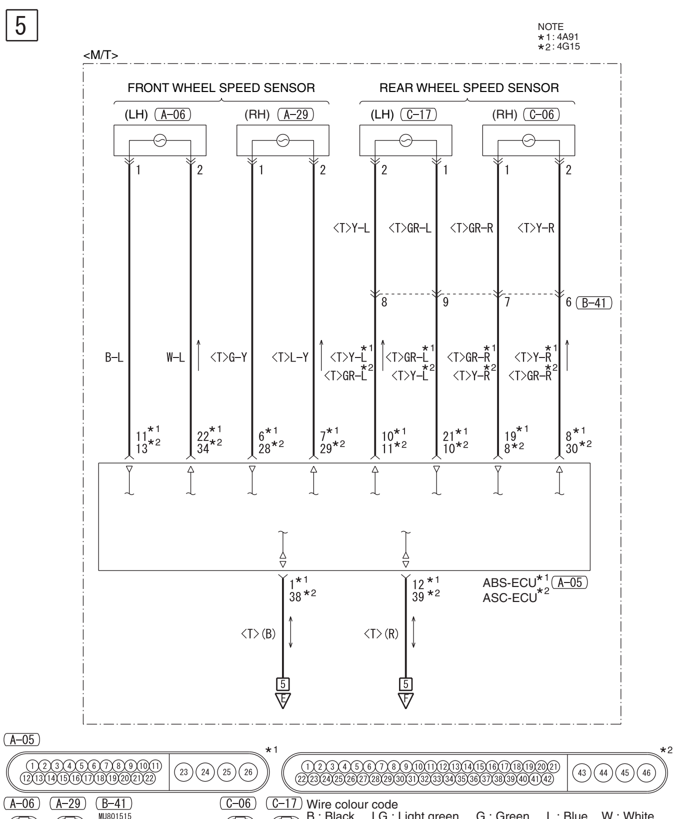
## METER AND GAUGE (CONTINUED)




Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

H6N10L02BC

## METER AND GAUGE (CONTINUED)

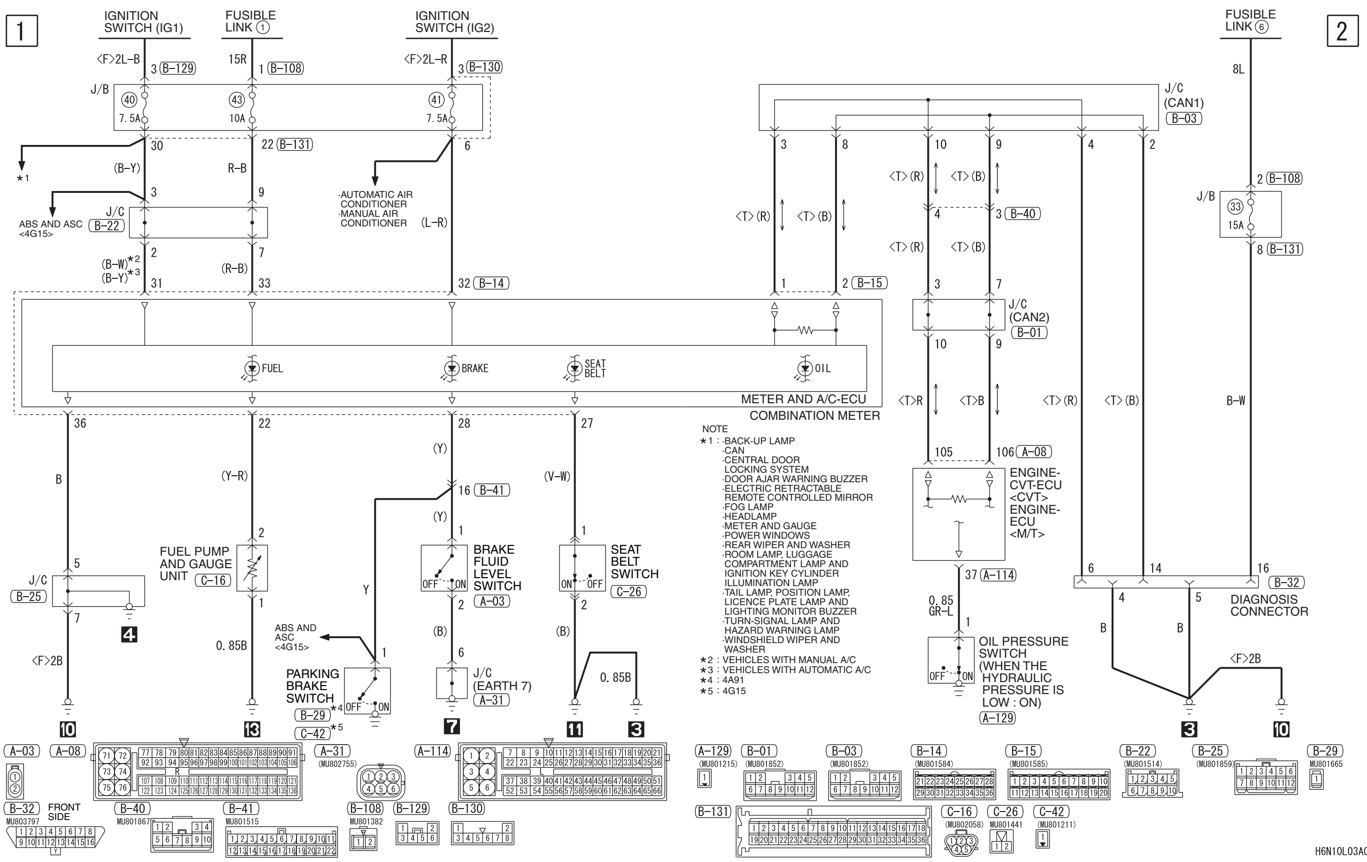



Wire colour code
B : Black LG : Light green G : Green L : Blue W : White
Y : Yellow SB : Sky blue BR : Brown O : Orange
GR : Grey R : Red P : Pink V : Violet PU : Purple

H6N10L02CC

# FUEL WARNING LAMP, OIL PRESSURE WARNING LAMP SEAT BELT WARNING LAMP AND BRAKE WARNING LAMP

M1901011801777

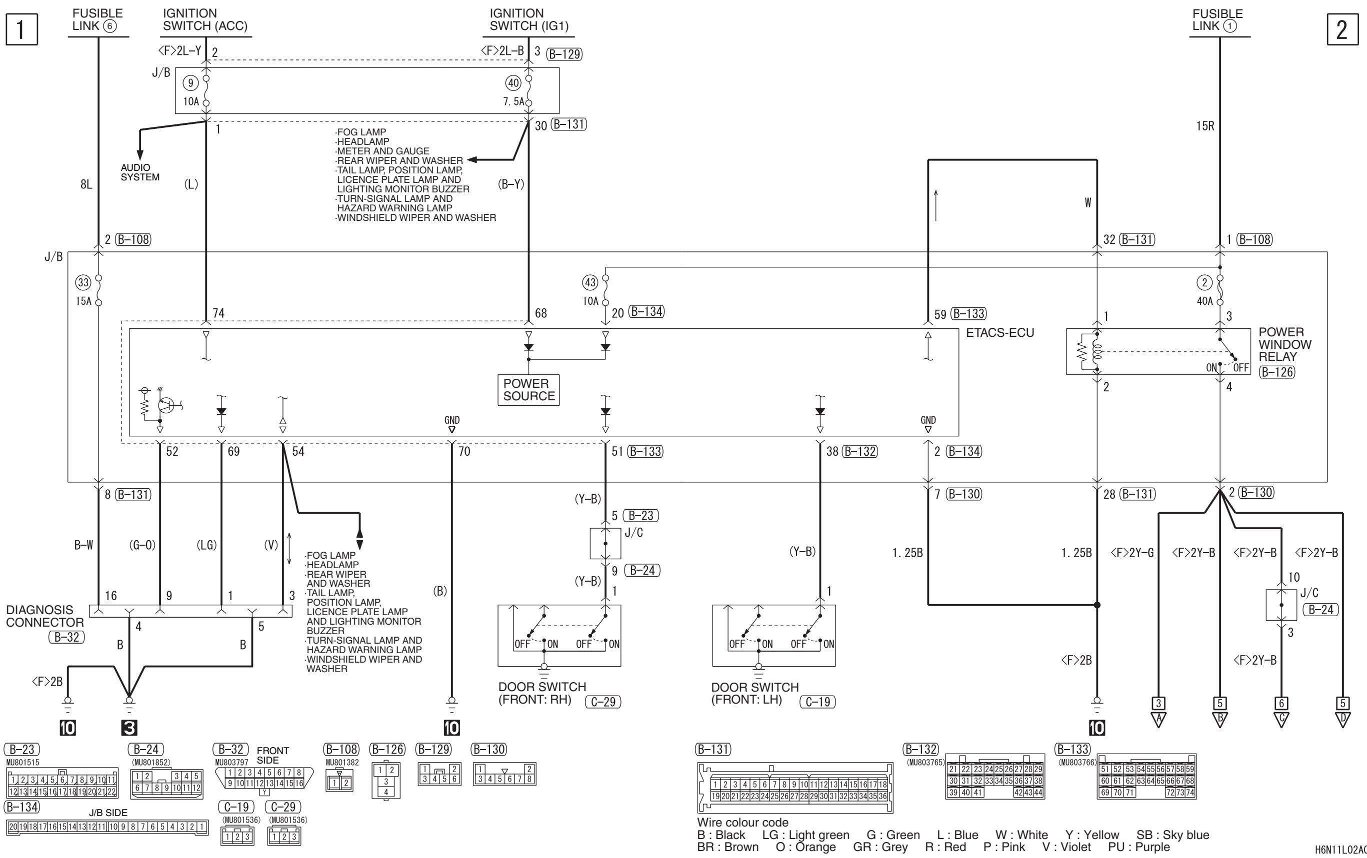


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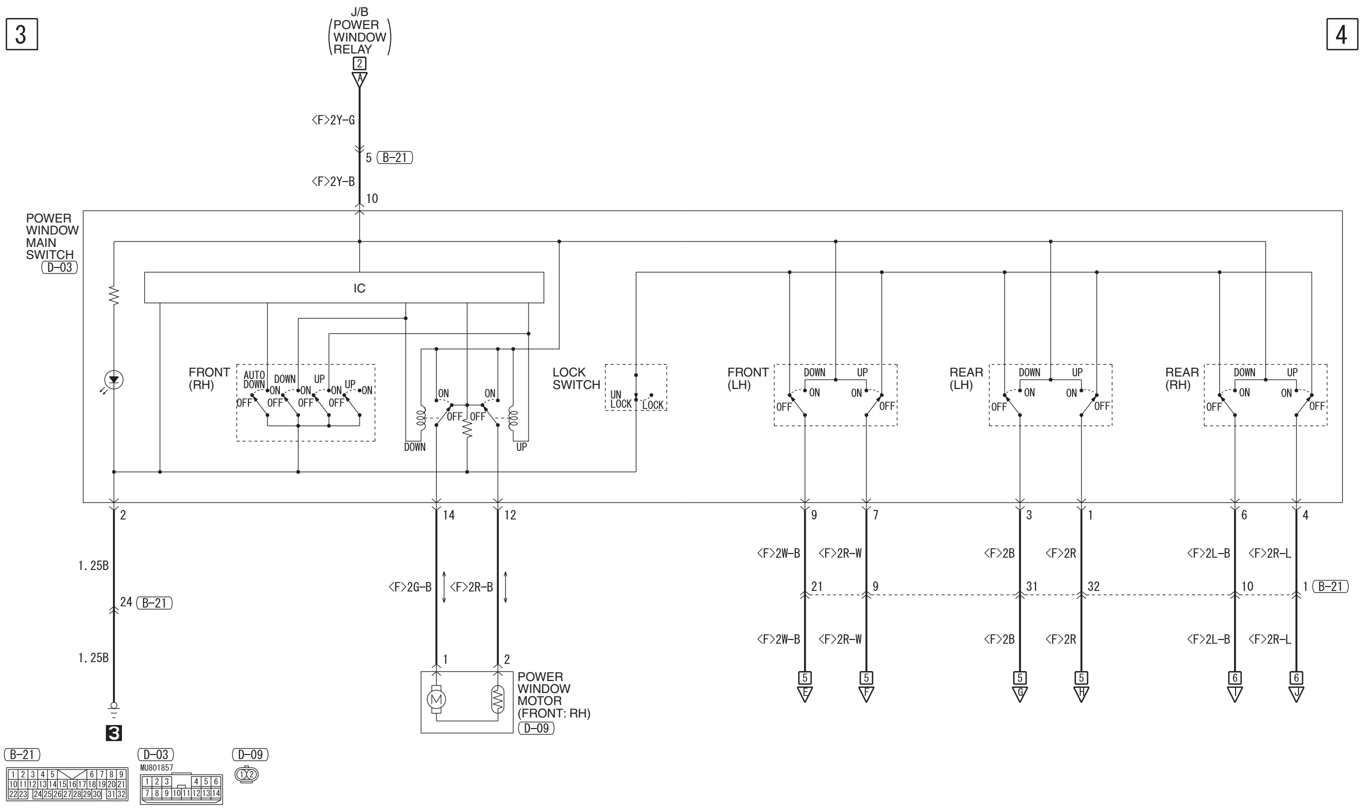
Group TOC

# POWER WINDOWS

M1901004602688



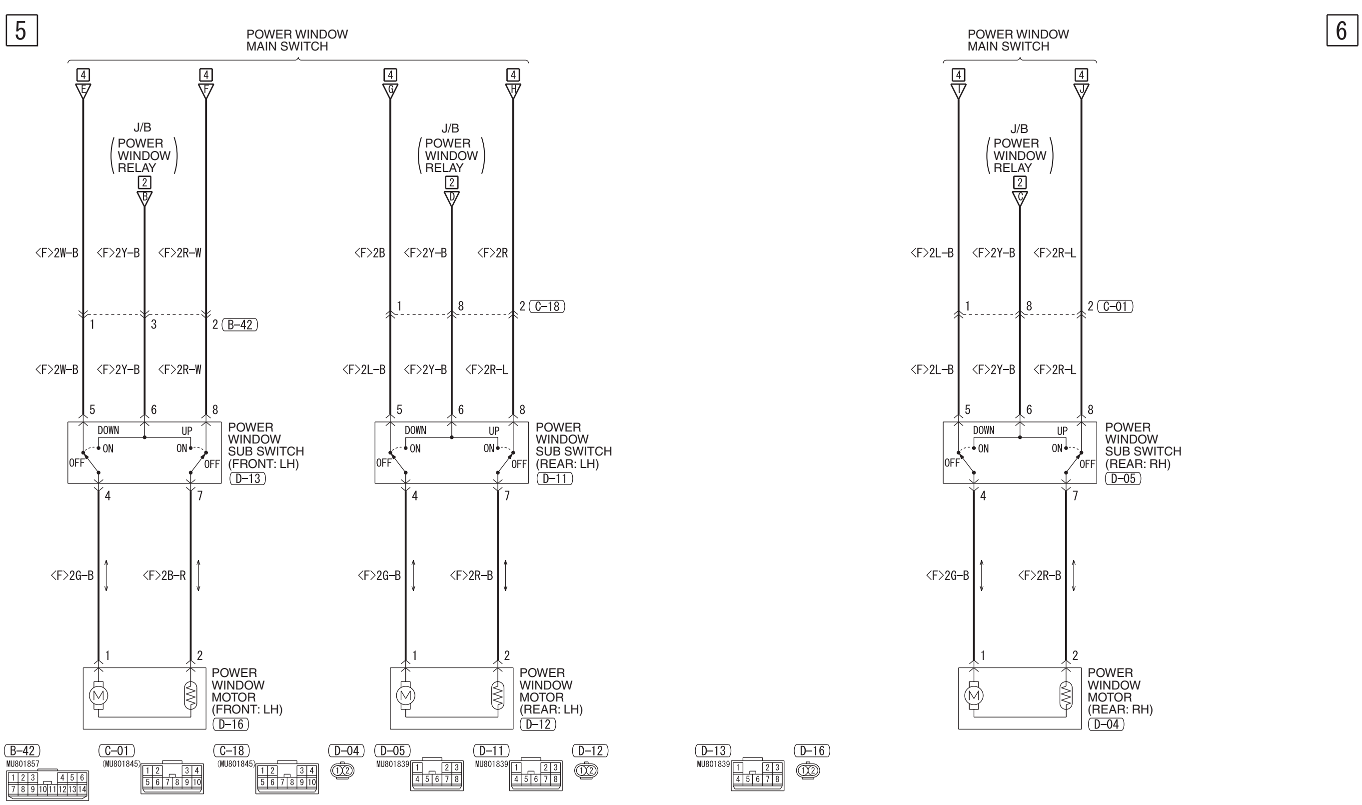
## POWER WINDOWS (CONTINUED)




Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Gray R : Red P : Pink V : Violet

H6N11L02BC

## POWER WINDOWS (CONTINUED)




Wire colour code
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BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet

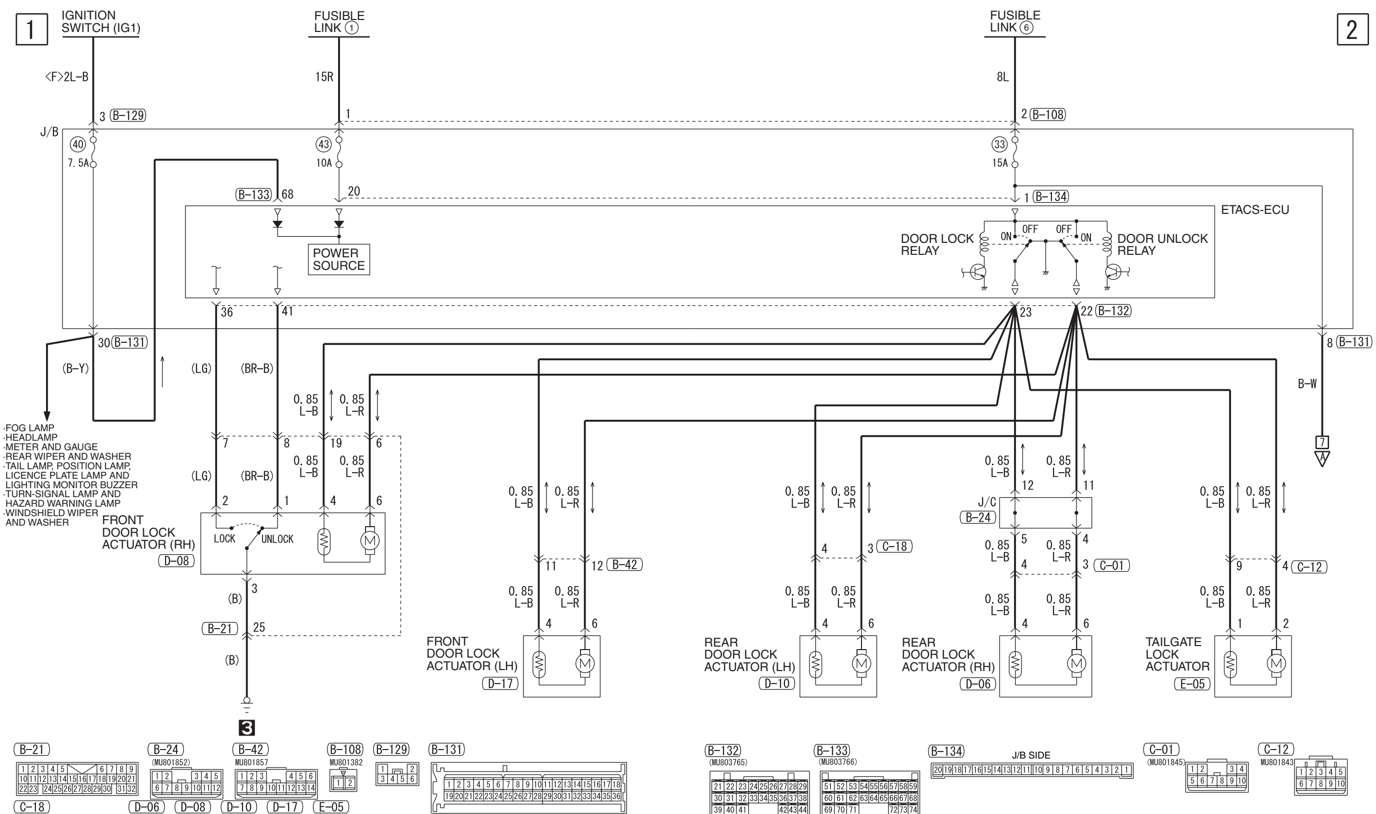
H6N11L02CC

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# CENTRAL DOOR LOCKING SYSTEM

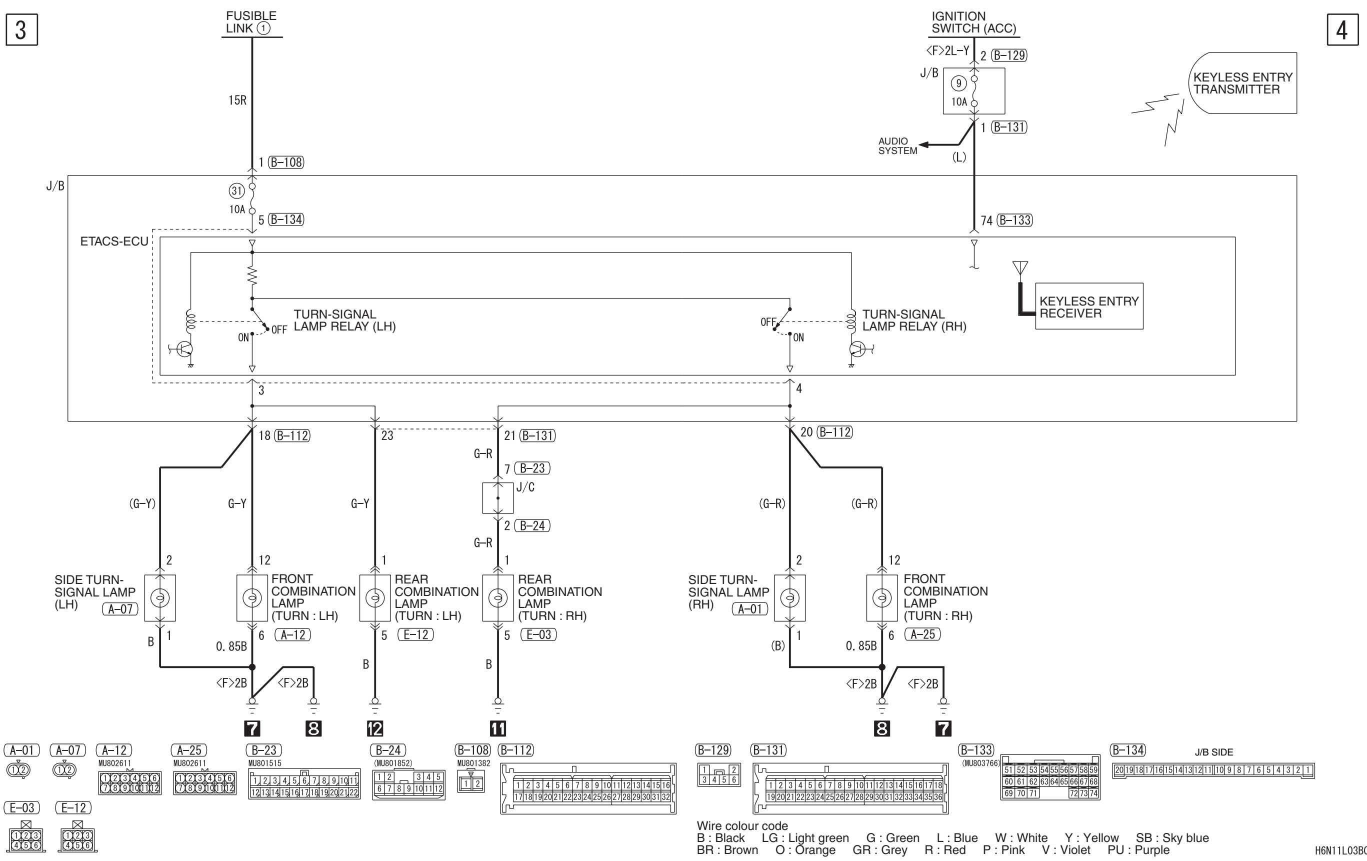
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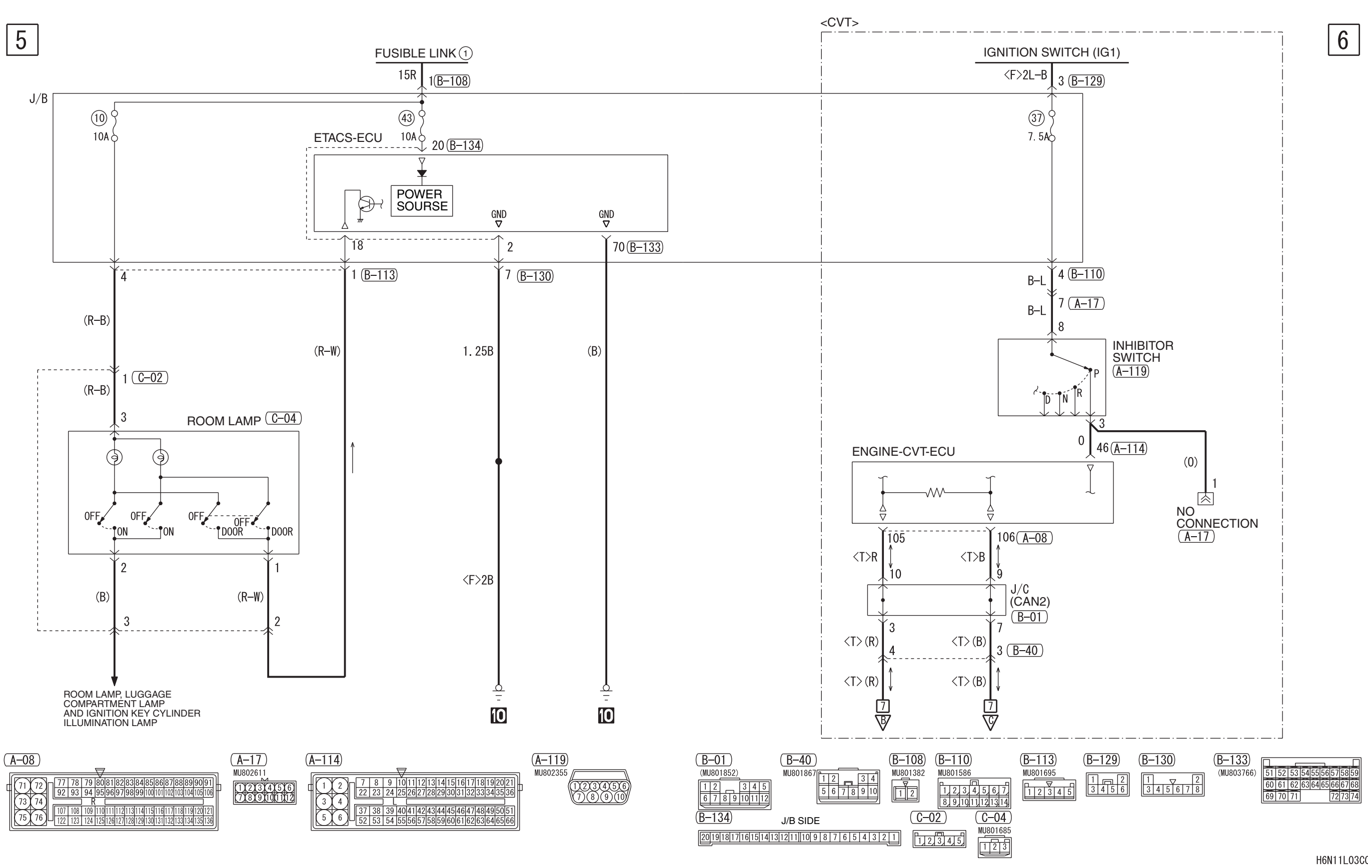

Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

H6N11L03AC

## CENTRAL DOOR LOCKING SYSTEM (CONTINUED)



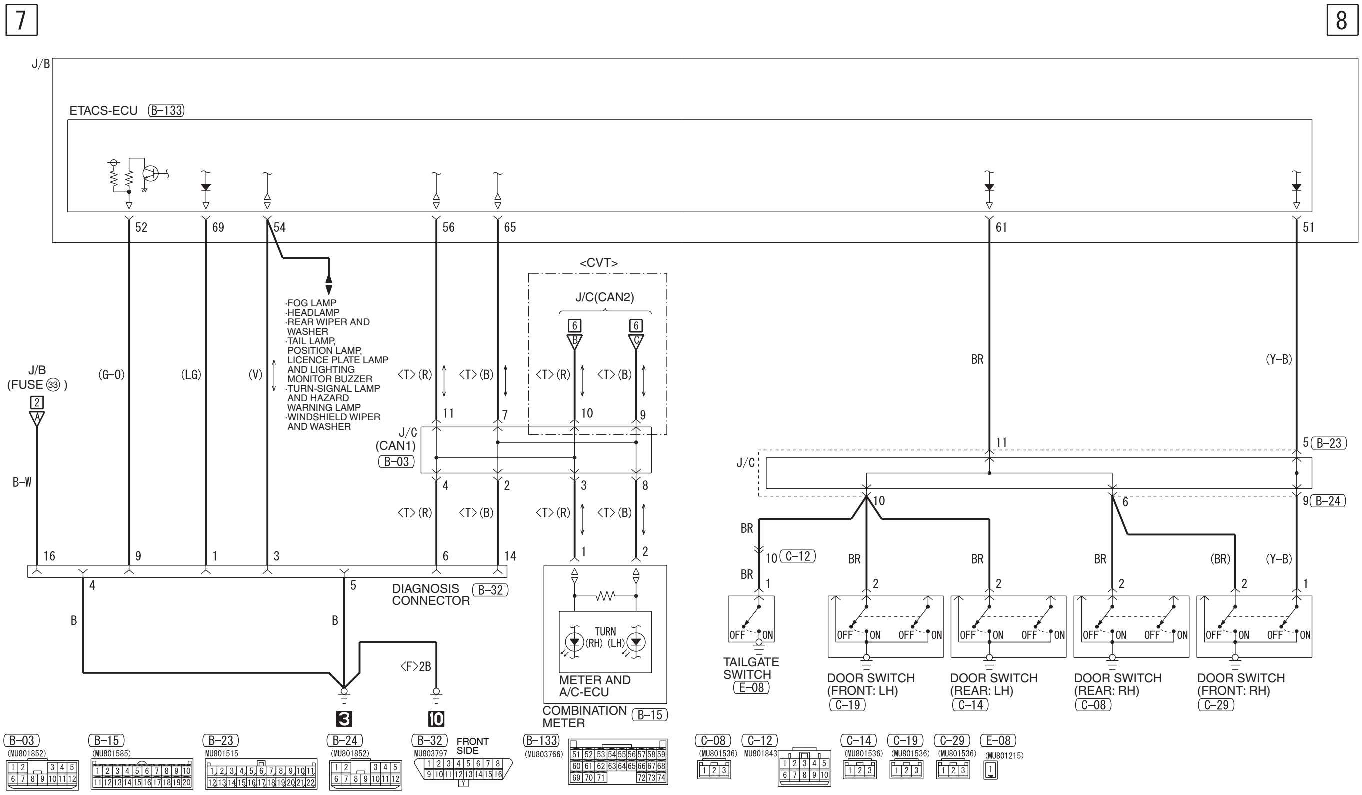

## CENTRAL DOOR LOCKING SYSTEM (CONTINUED)



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## CENTRAL DOOR LOCKING SYSTEM (CONTINUED)



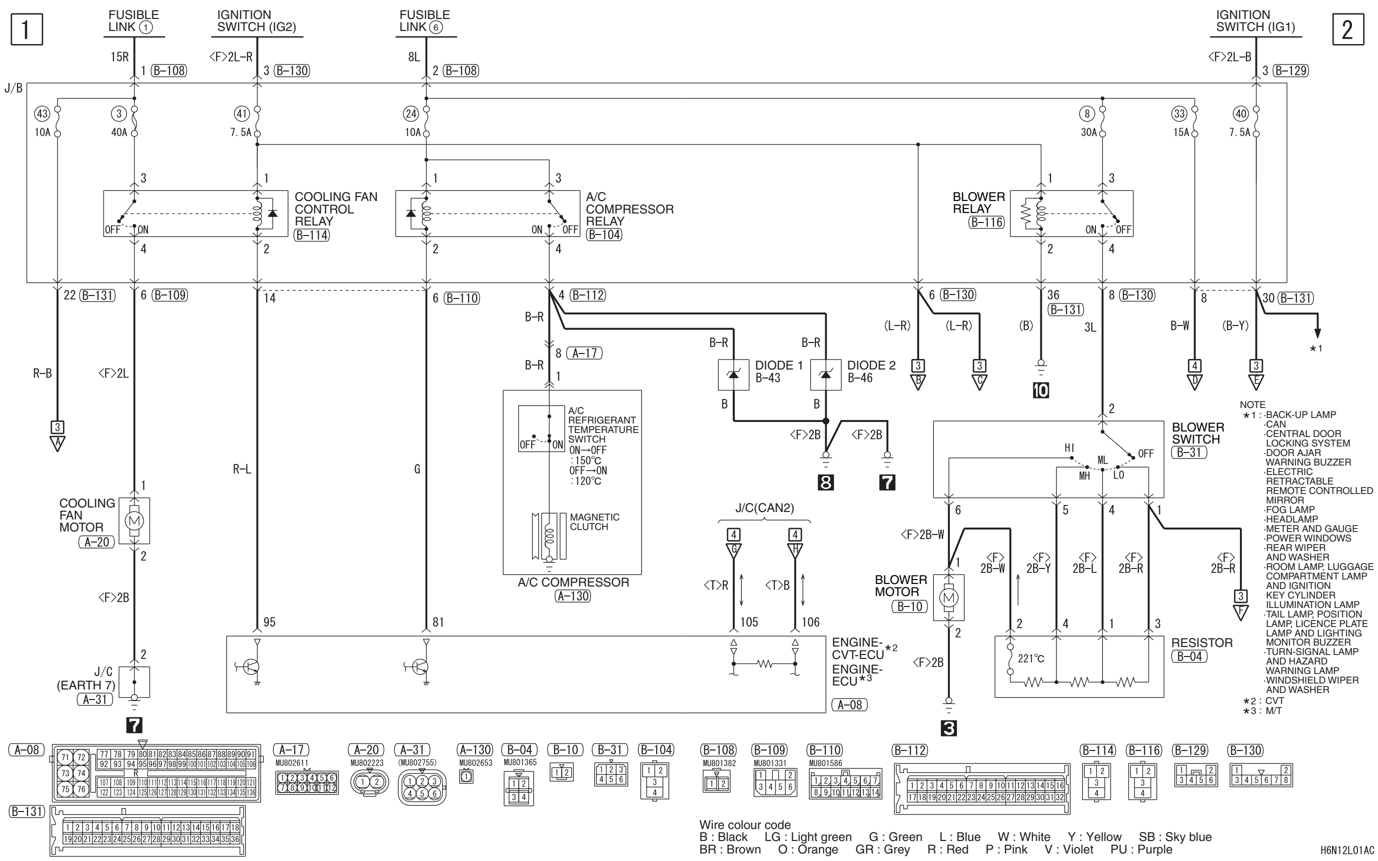

Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

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# MANUAL AIR CONDITIONER

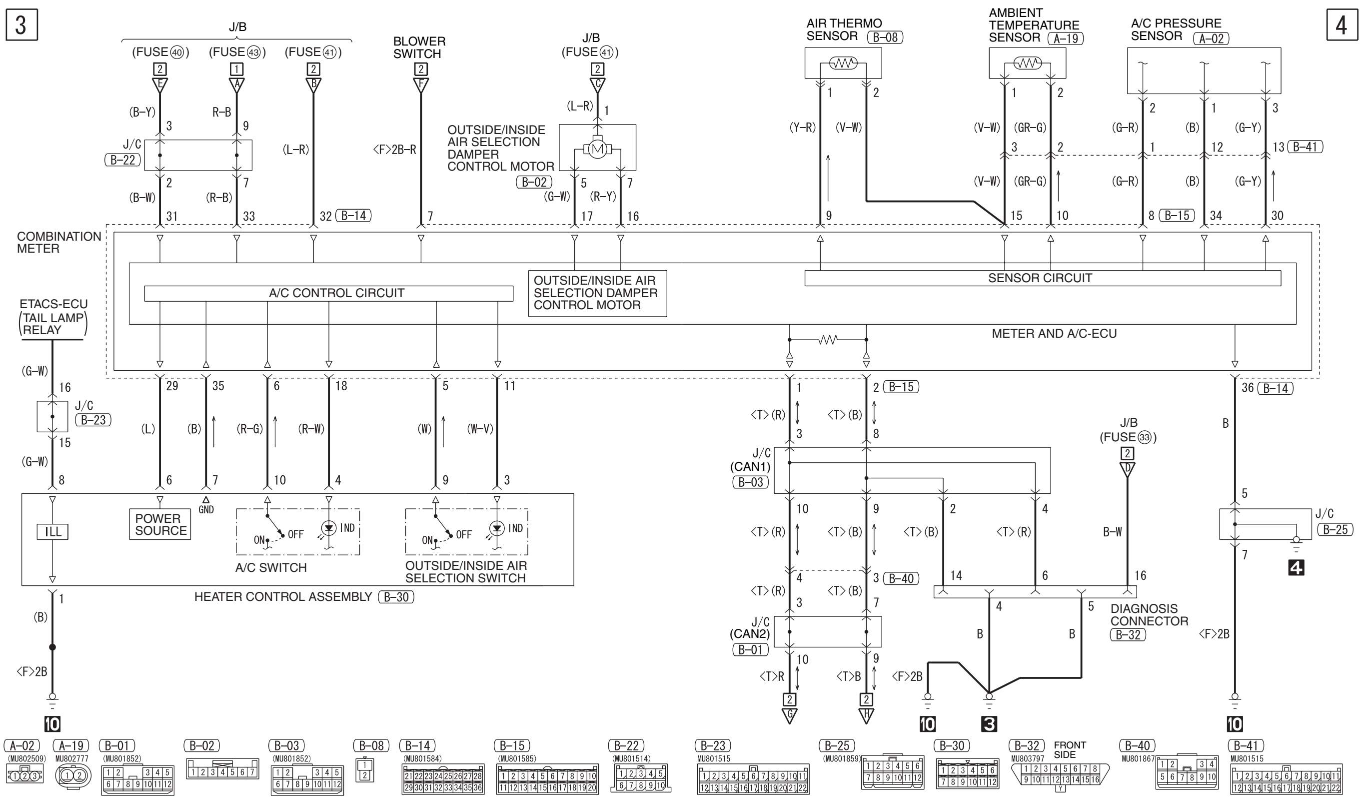
M1901005502480



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## MANUAL AIR CONDITIONER (CONTINUED)

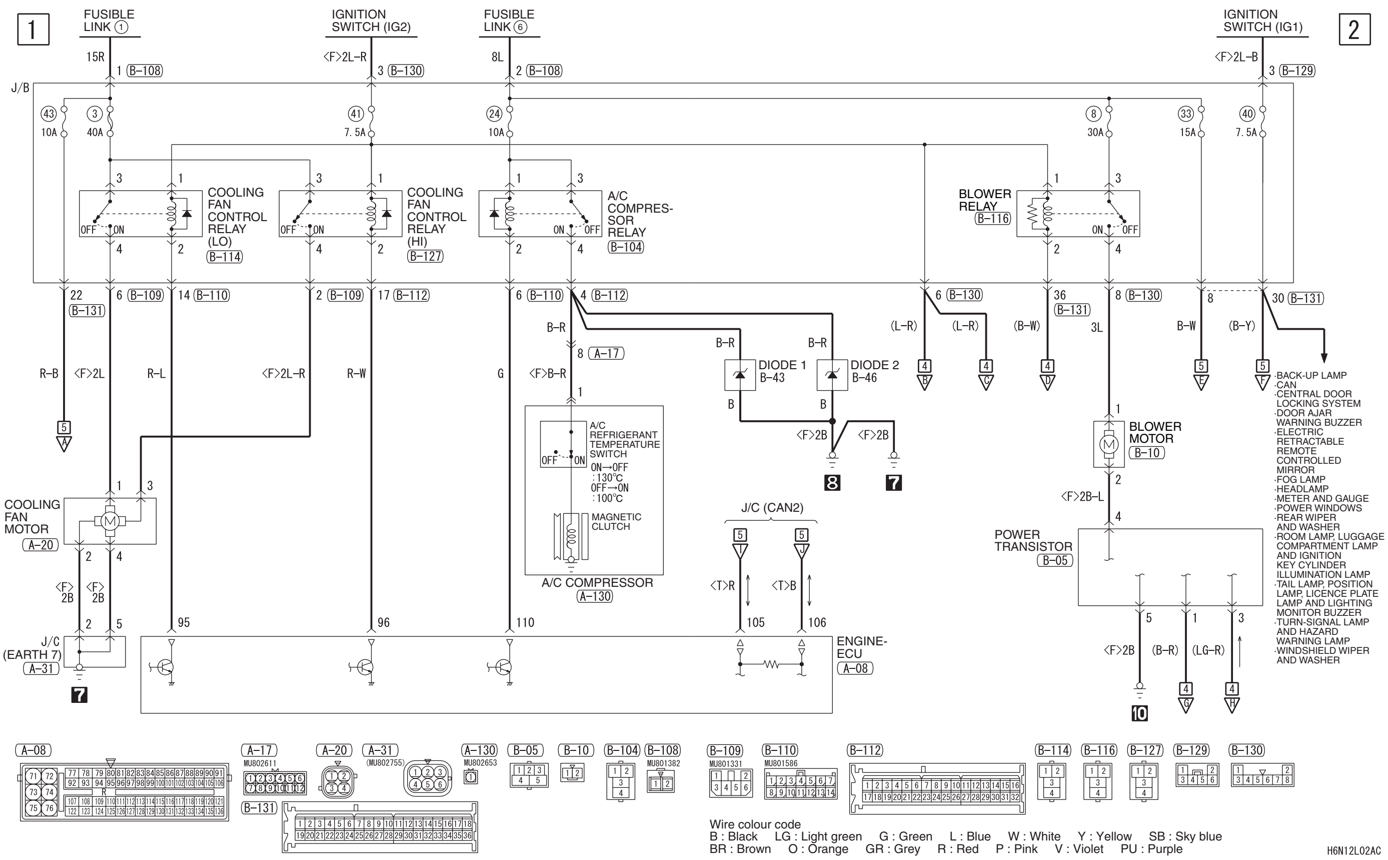



Wire colour code
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H6N12L01BC

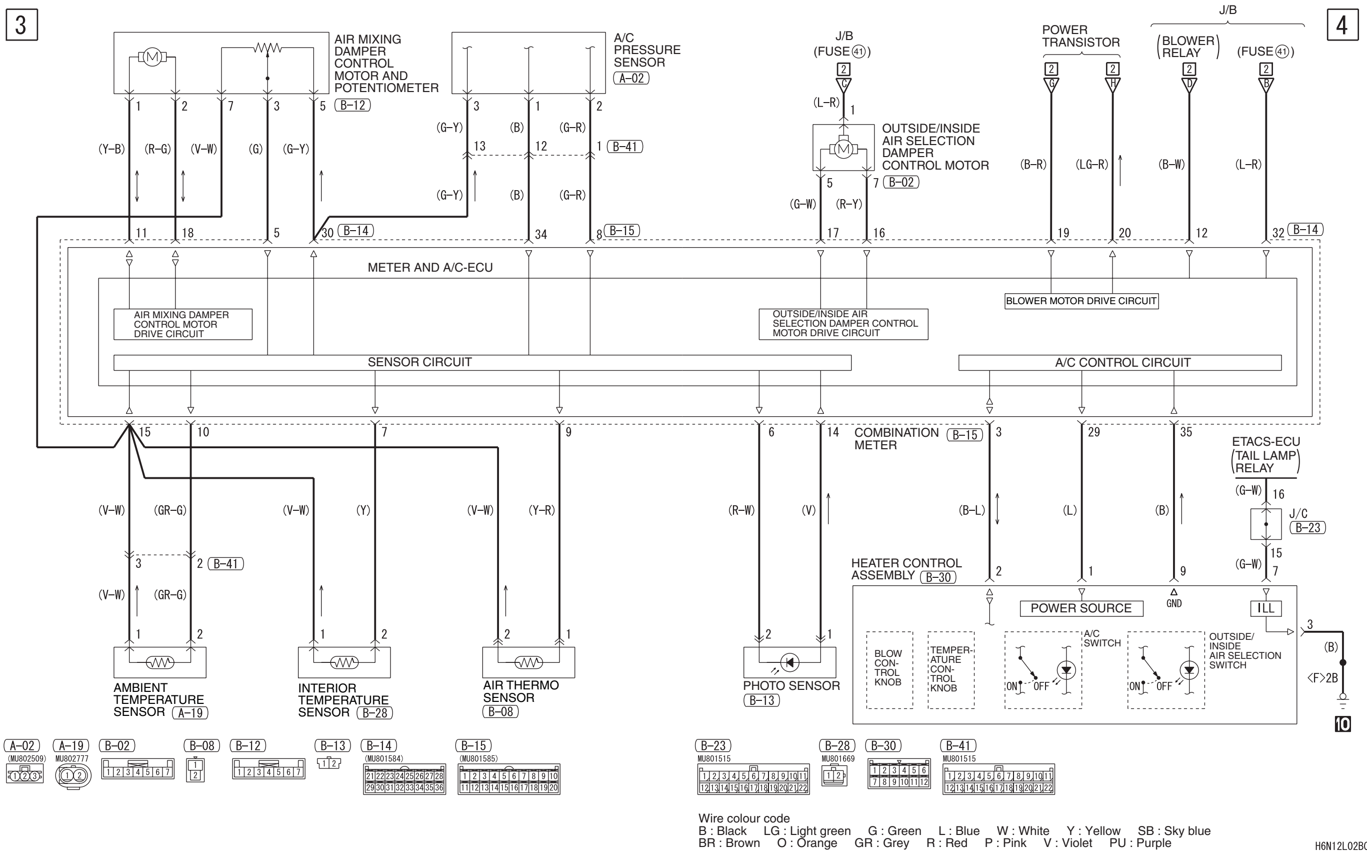
# AUTOMATIC AIR CONDITIONER

M1901005601310

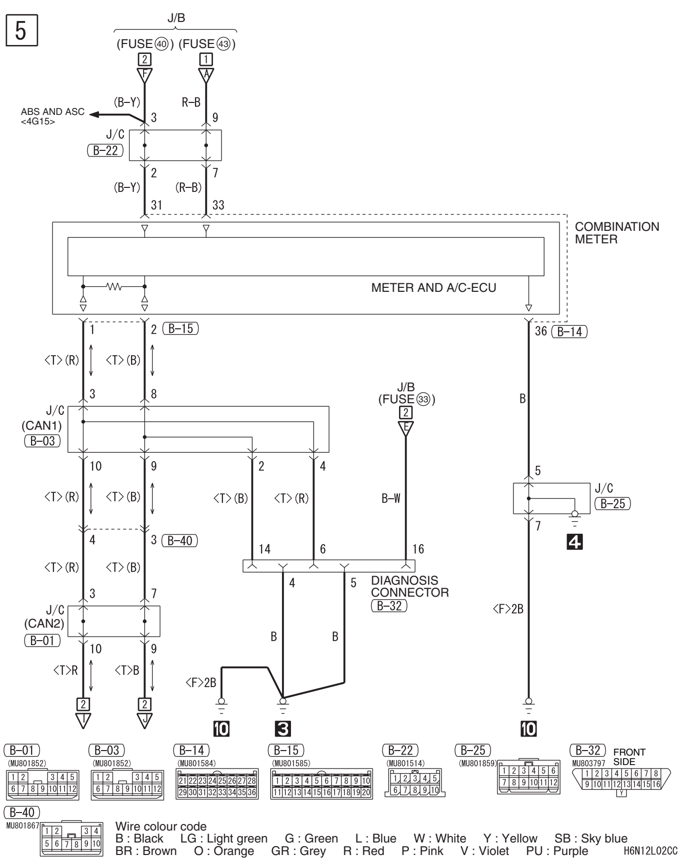


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## AUTOMATIC AIR CONDITIONER (CONTINUED)



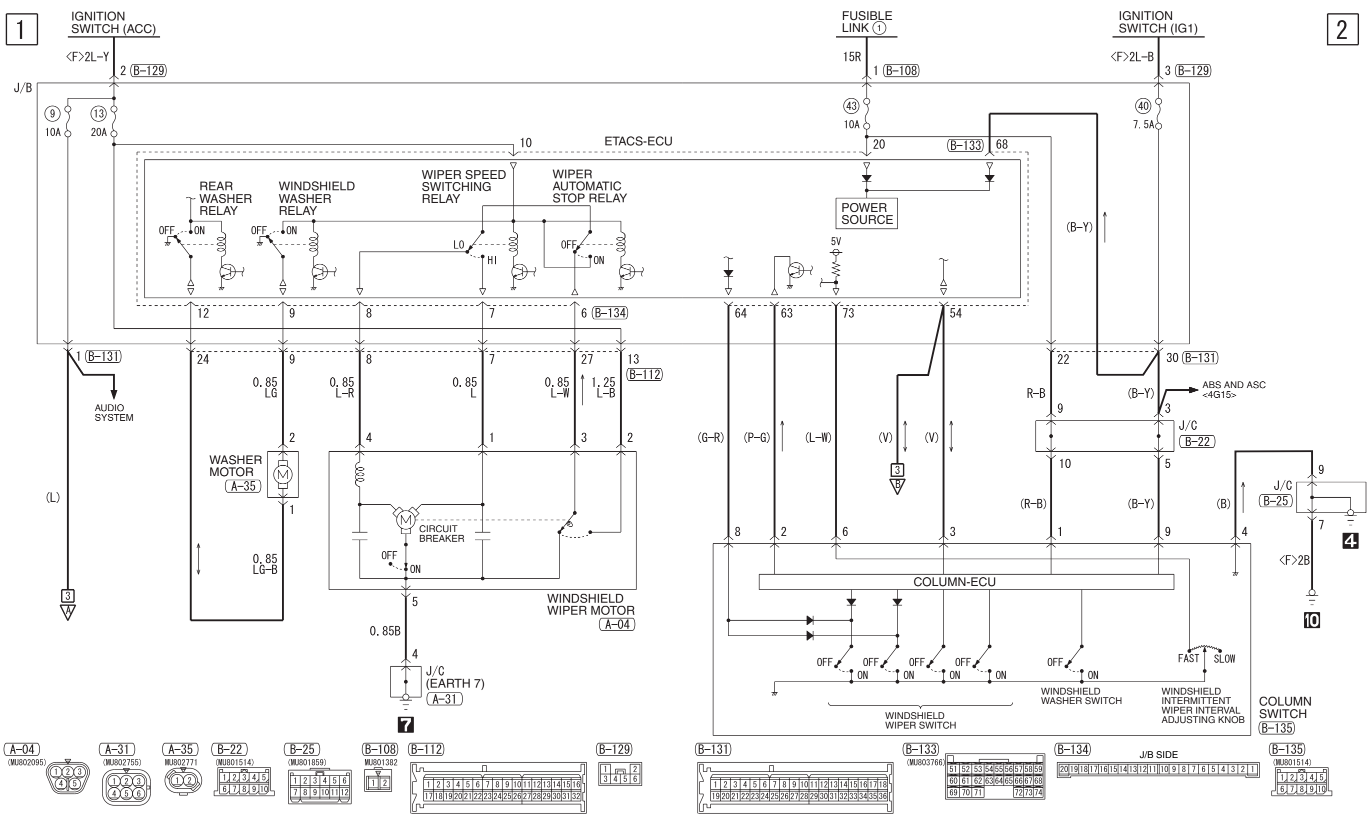

## AUTOMATIC AIR CONDITIONER (CONTINUED)



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# WINDSHIELD WIPER AND WASHER

M1901006102690

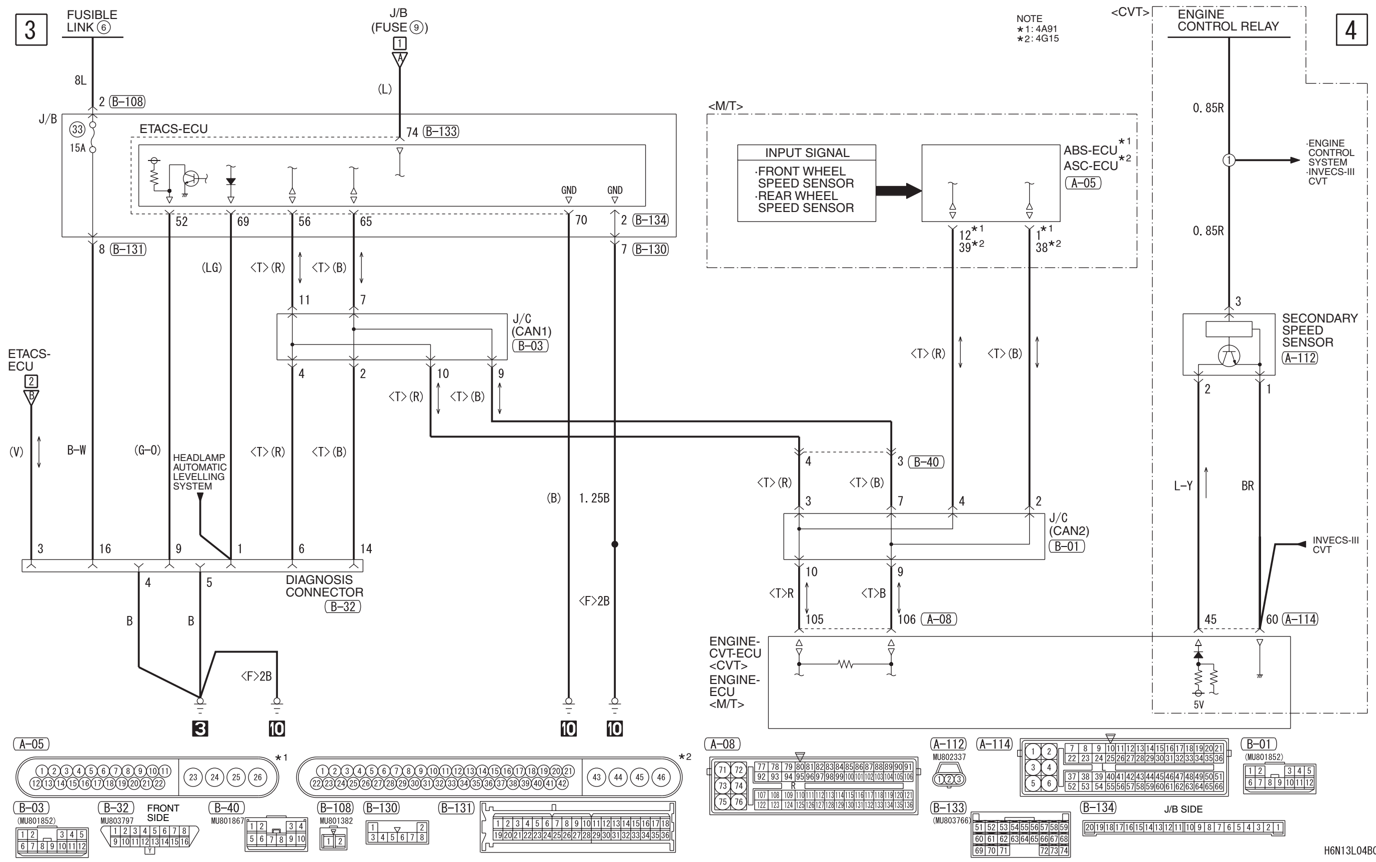



Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

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# WINDSHIELD WIPER AND WASHER (CONTINUED)

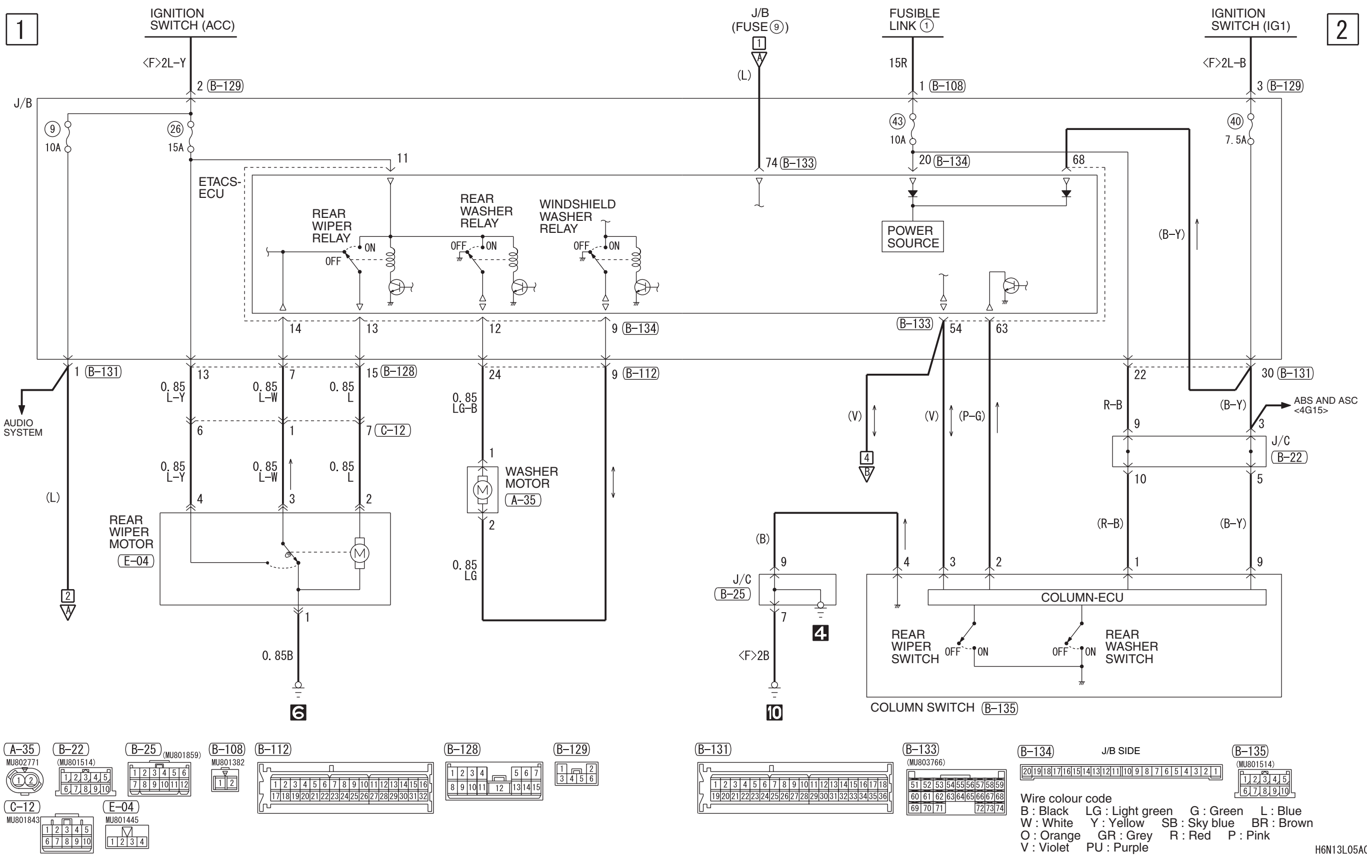


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# REAR WIPER AND WASHER

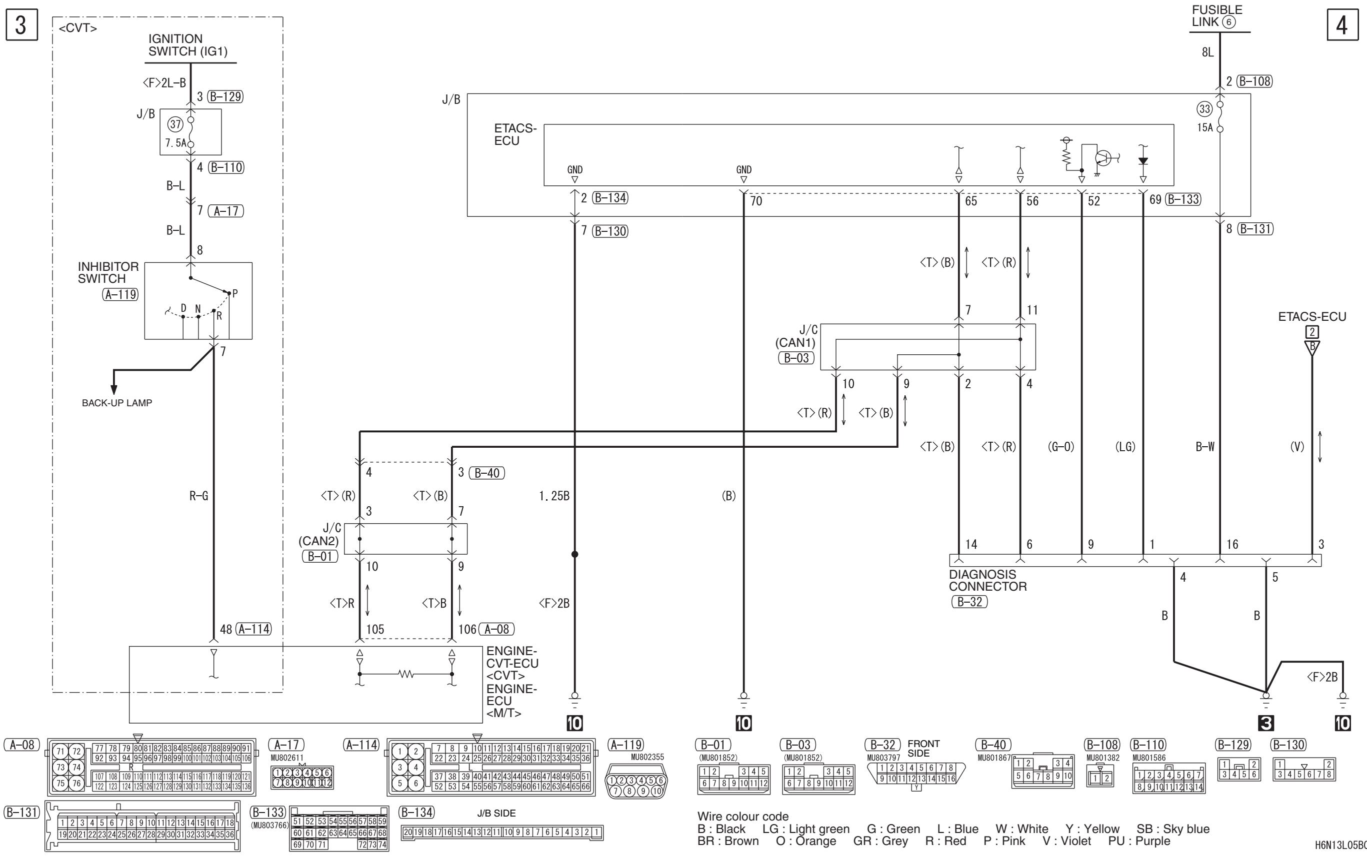
M1901006201973



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## REAR WIPER AND WASHER (CONTINUED)



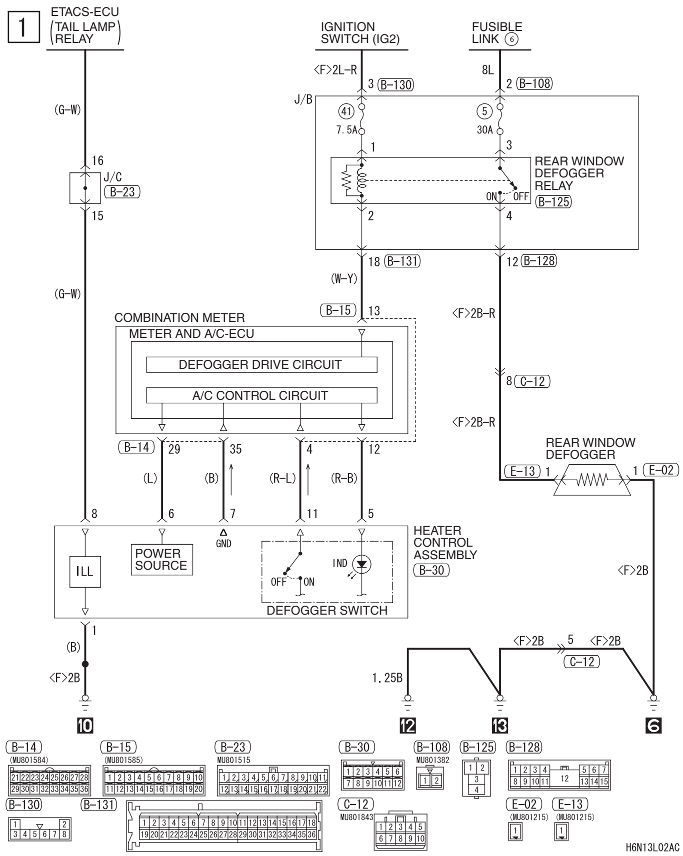
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# REAR WINDOW DEFOGGER

## REAR WINDOW DEFOGGER <VEHICLES WITH MANUAL AIR CONDITIONER>

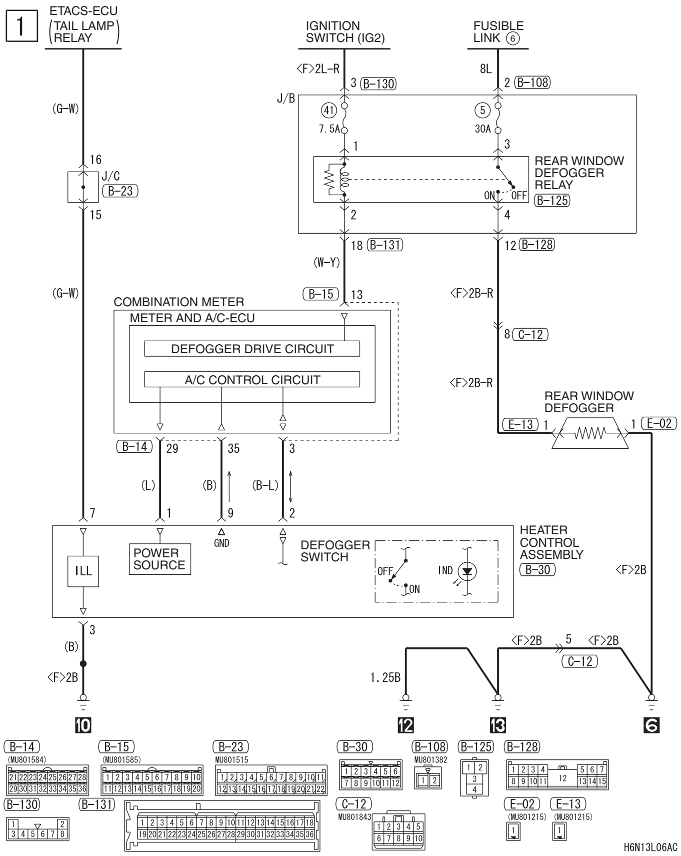
M1901006401513



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# REAR WINDOW DEFOGGER <VEHICLES WITH AUTOMATIC AIR CONDITIONER>

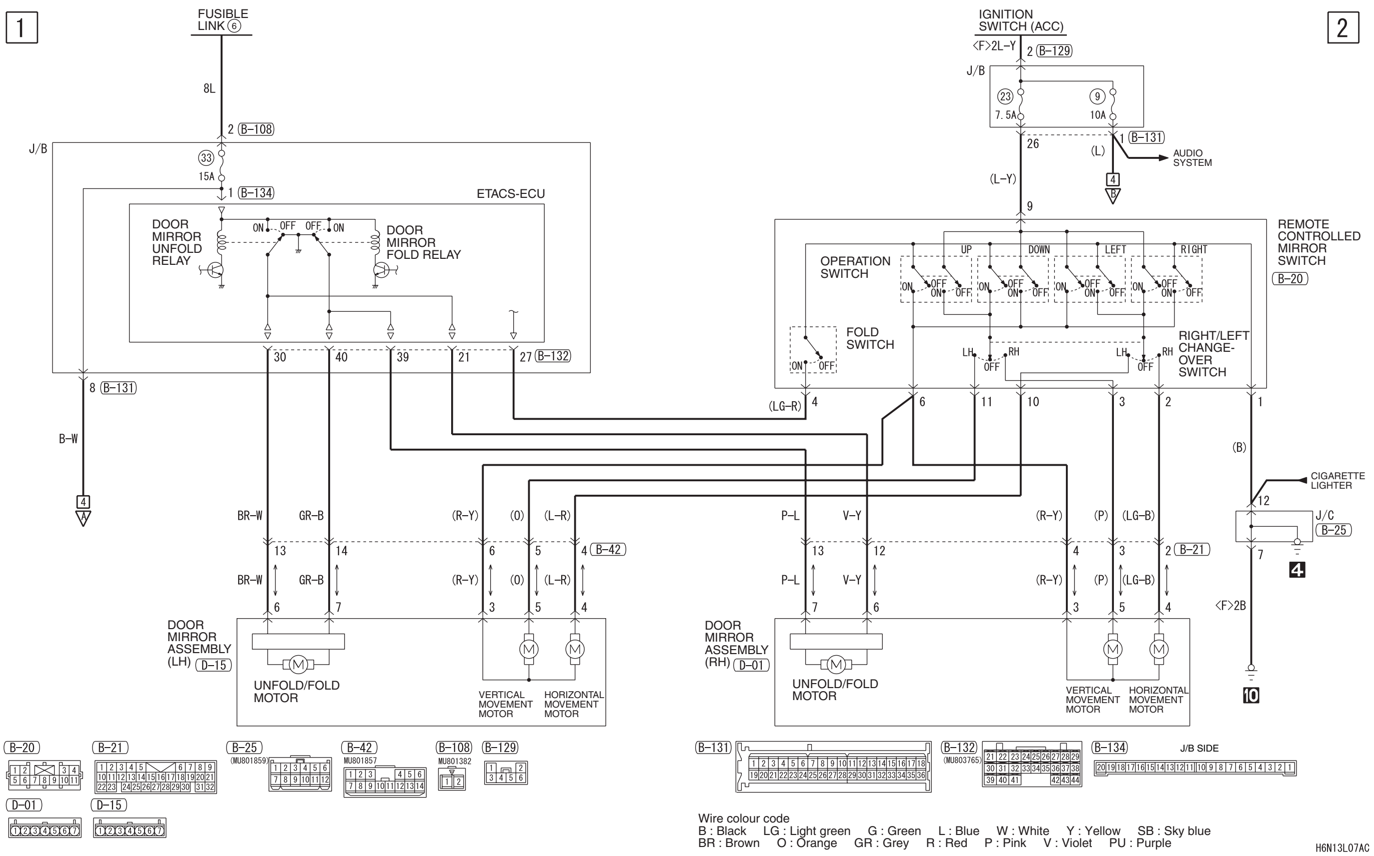
M1901006401535



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# ELECTRIC RETRACTABLE REMOTE CONTROLLED MIRROR

M1901006600343



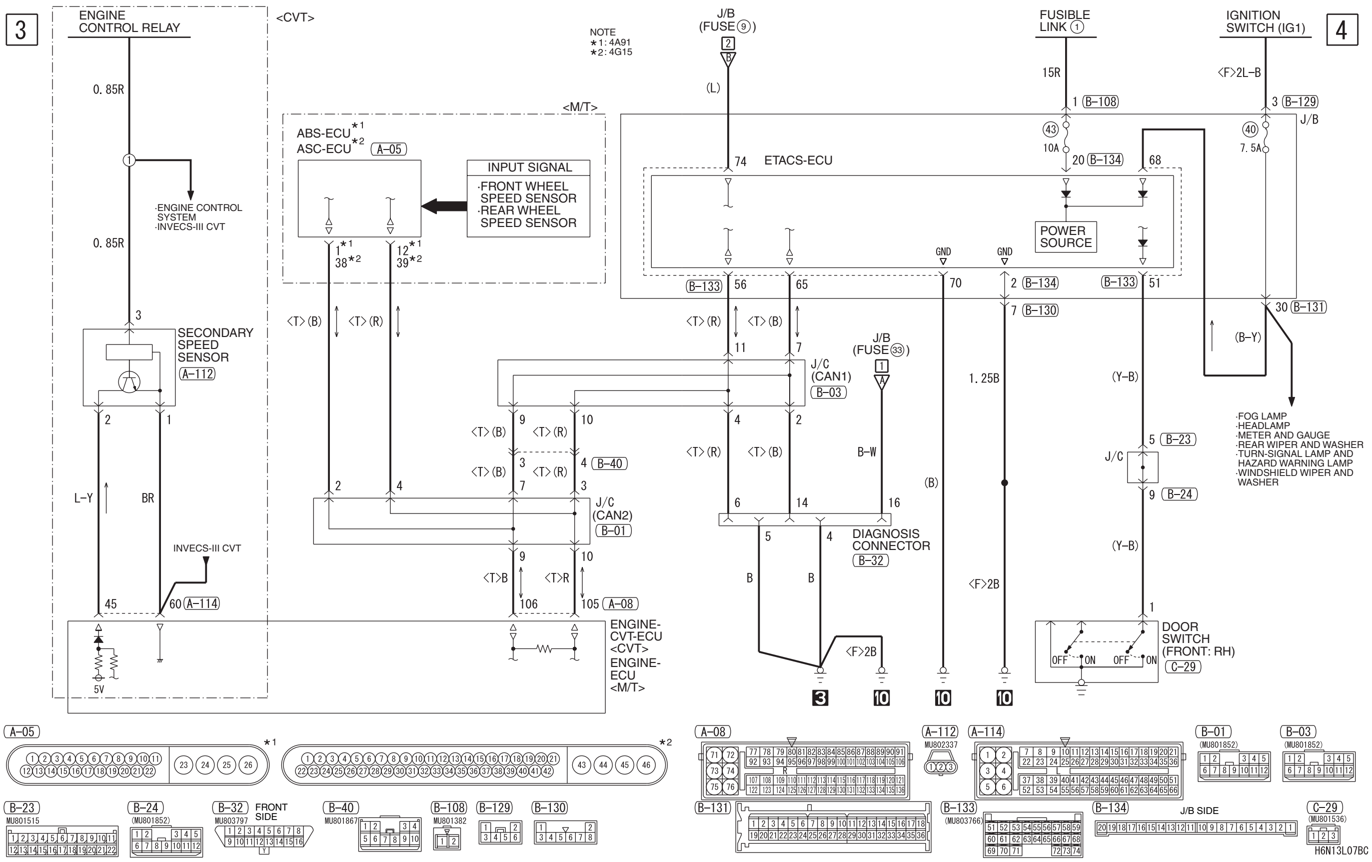

Wire colour code
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BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

H6N13L07AC

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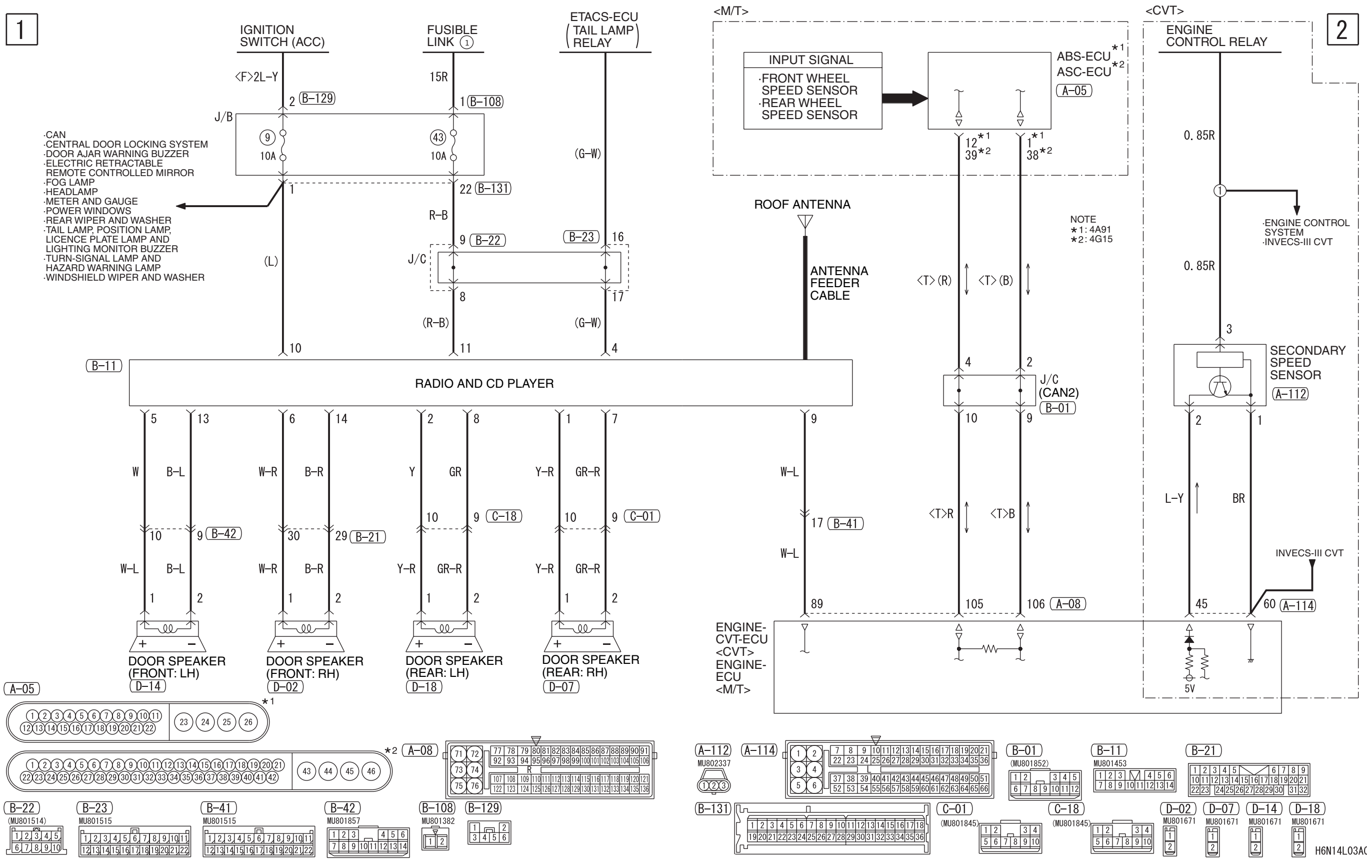
## ELECTRIC RETRACTABLE REMOTE CONTROLLED MIRROR (CONTINUED)



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# AUDIO SYSTEM

M1901015602659

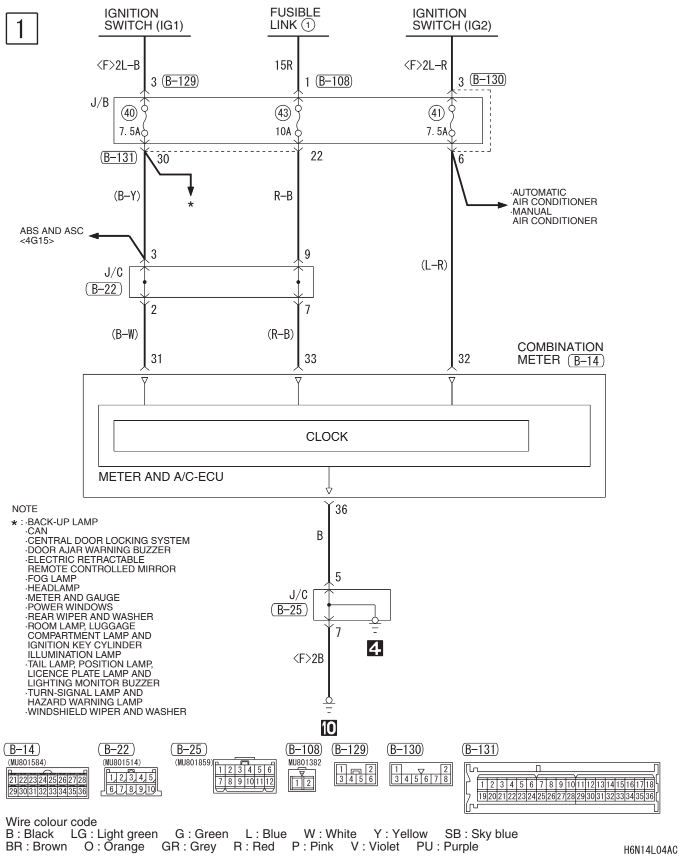


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# CLOCK

M1901007701539

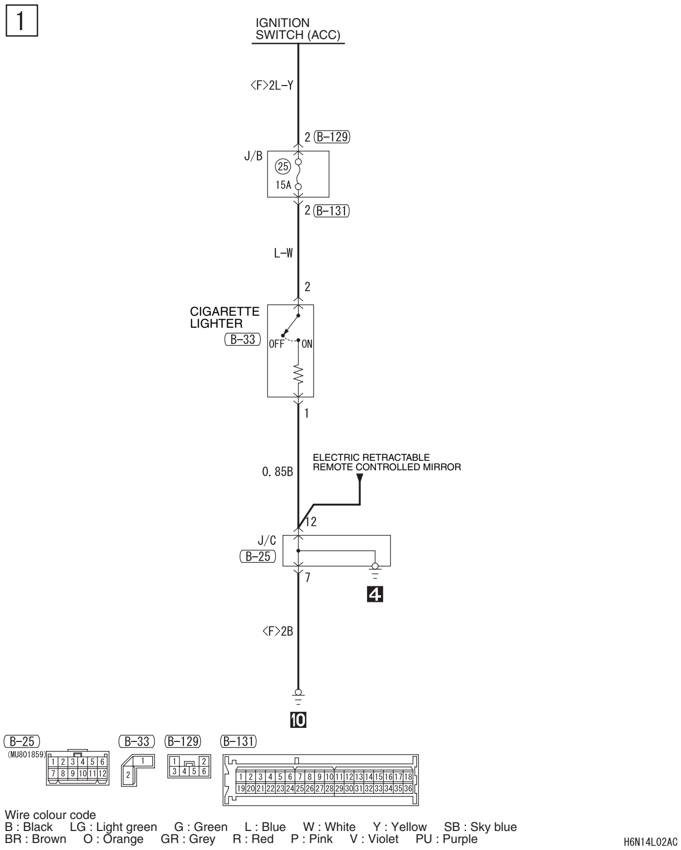


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# CIGARETTE LIGHTER

M1901007801280

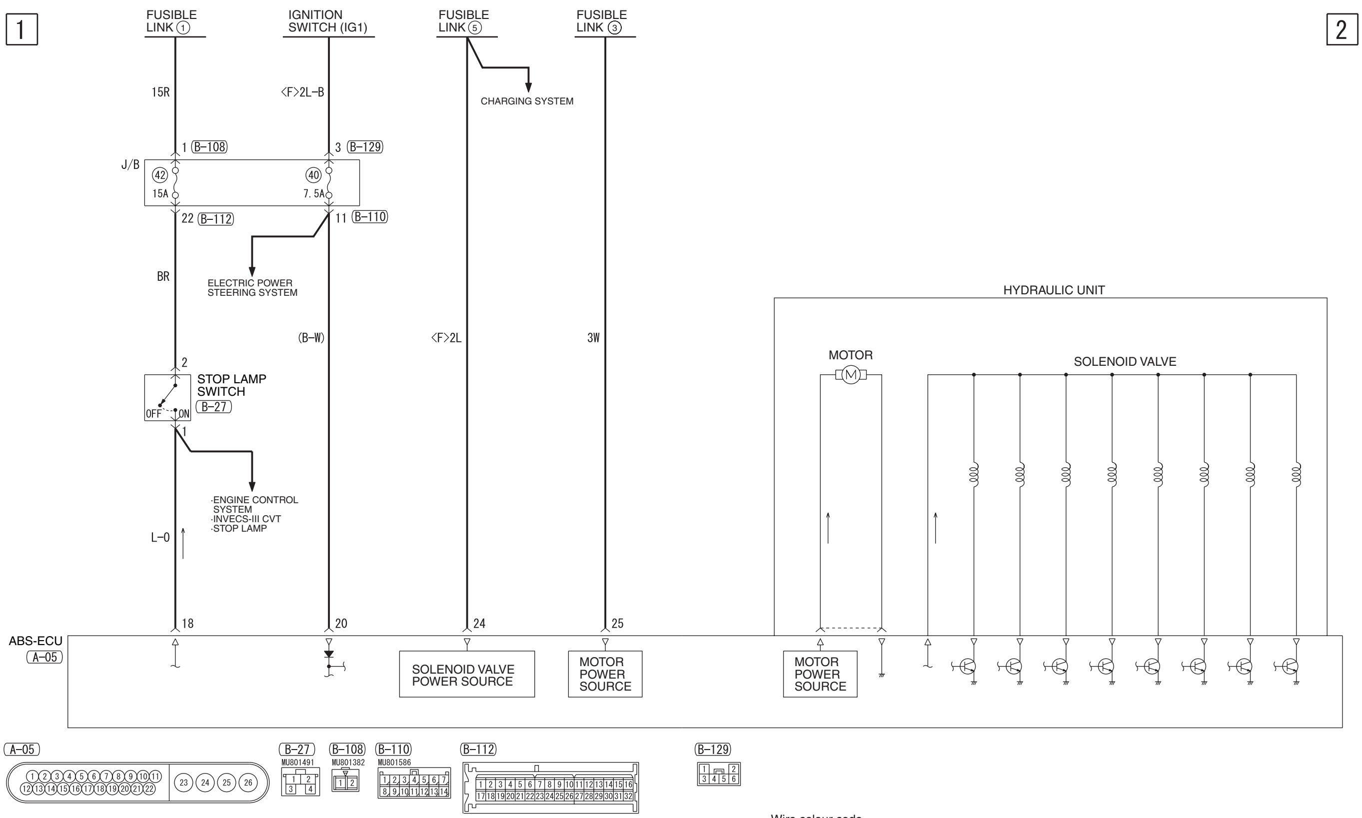


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# ABS <4A91>

M1901019200602

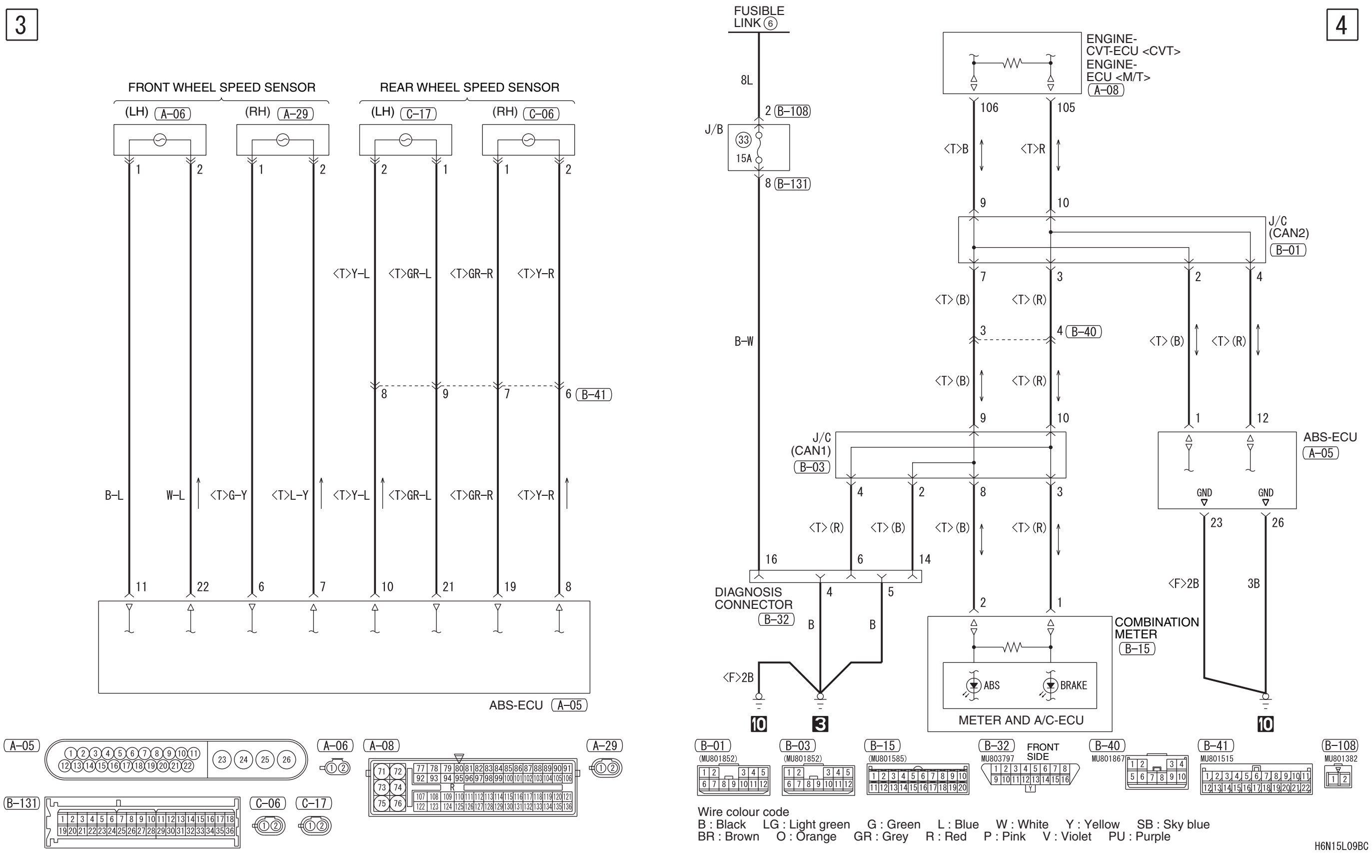



Wire colour code
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BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

H6N15L09AC

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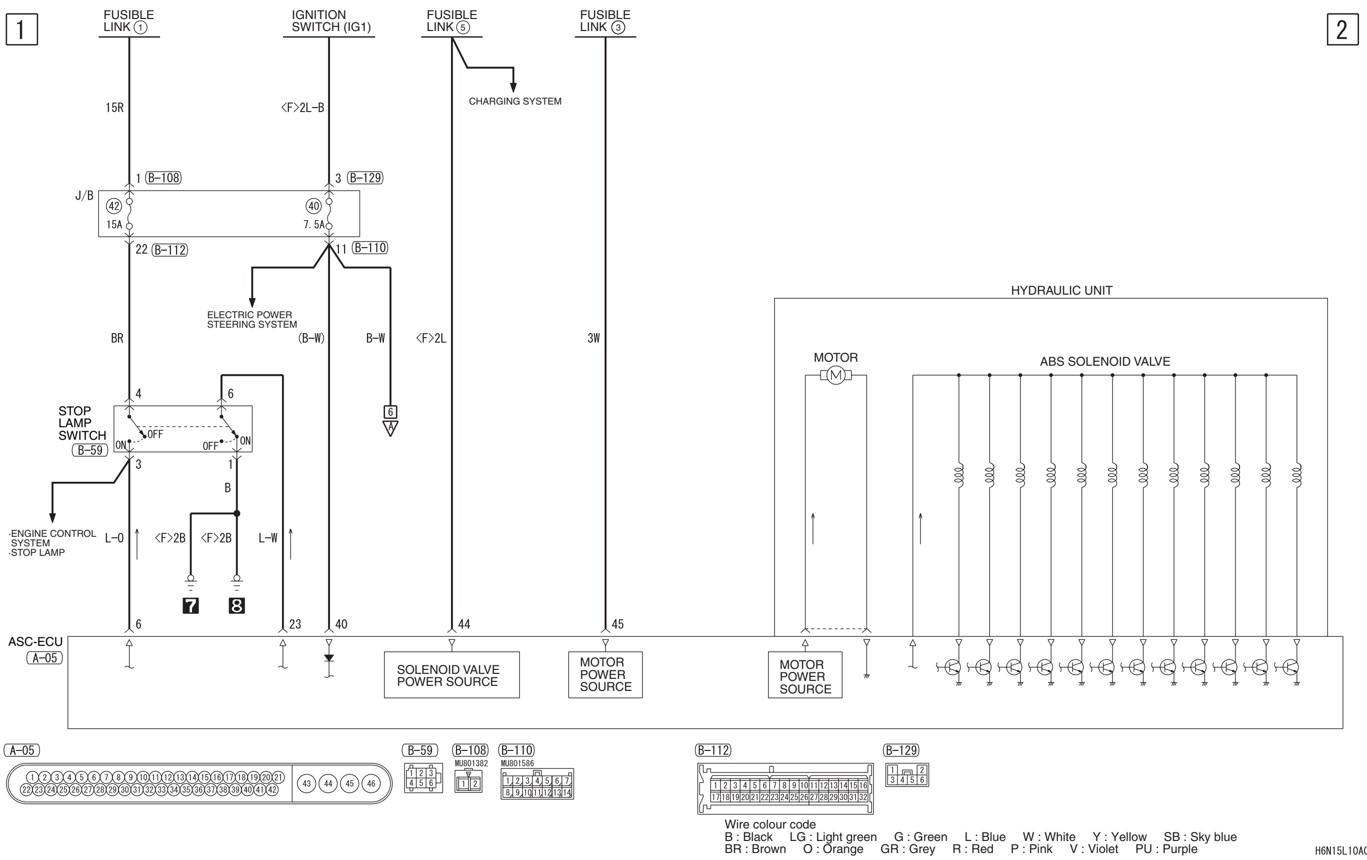
## ABS <4A91> (CONTINUED)



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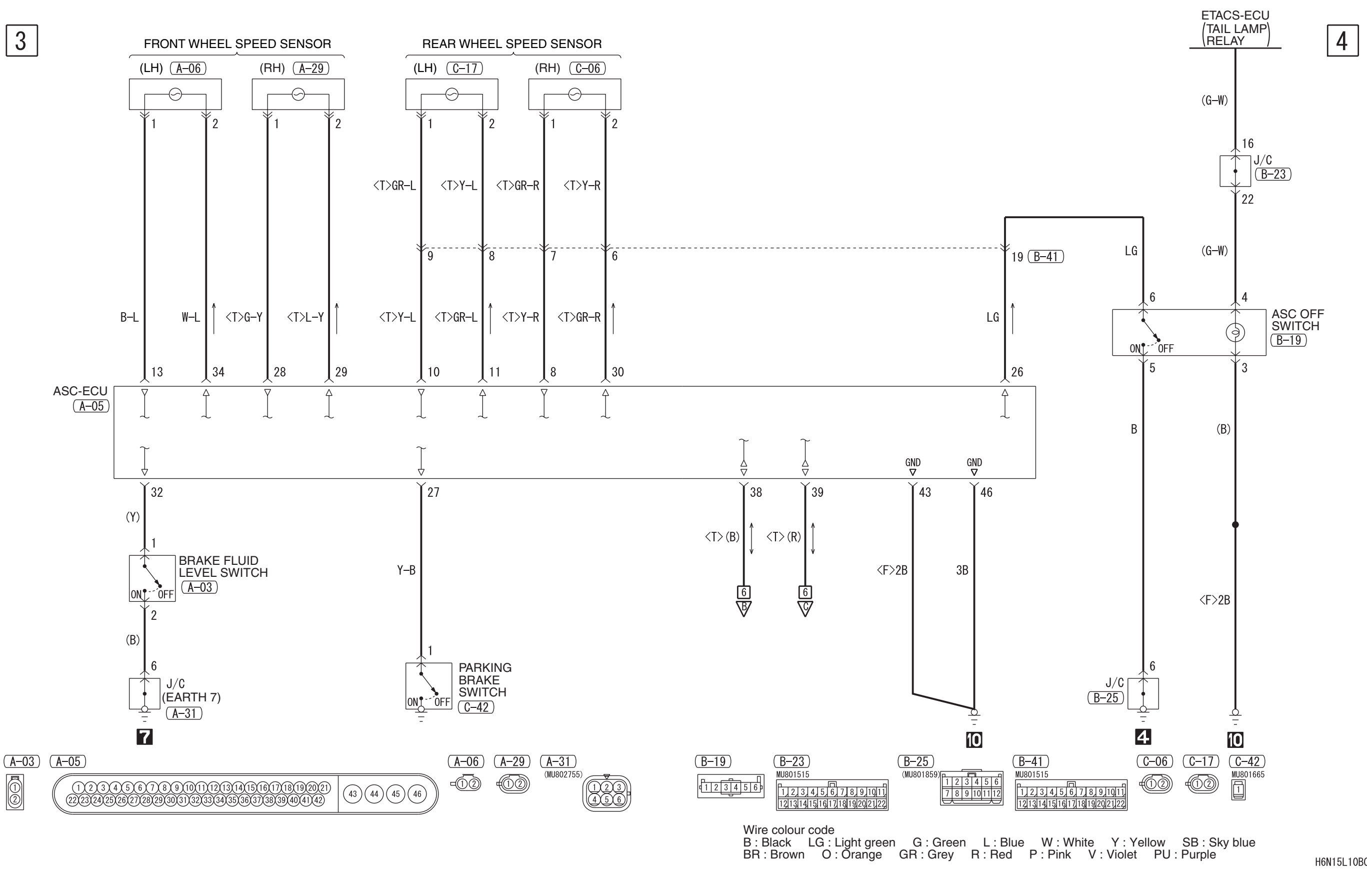
# ABS AND ASC <4G15>

M1901021700295

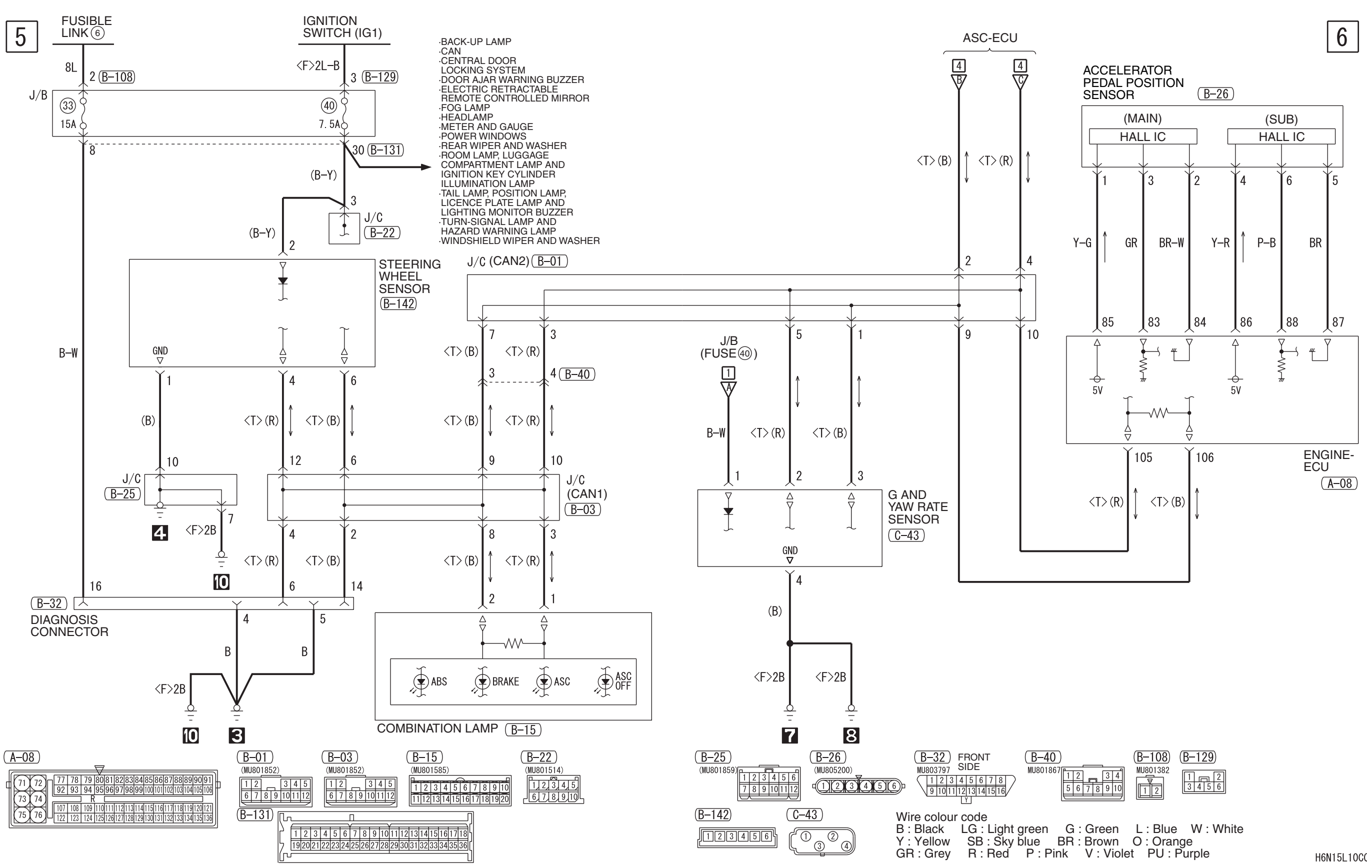


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## ABS AND ASC <4G15> (CONTINUED)




## ABS AND ASC <4G15> (CONTINUED)

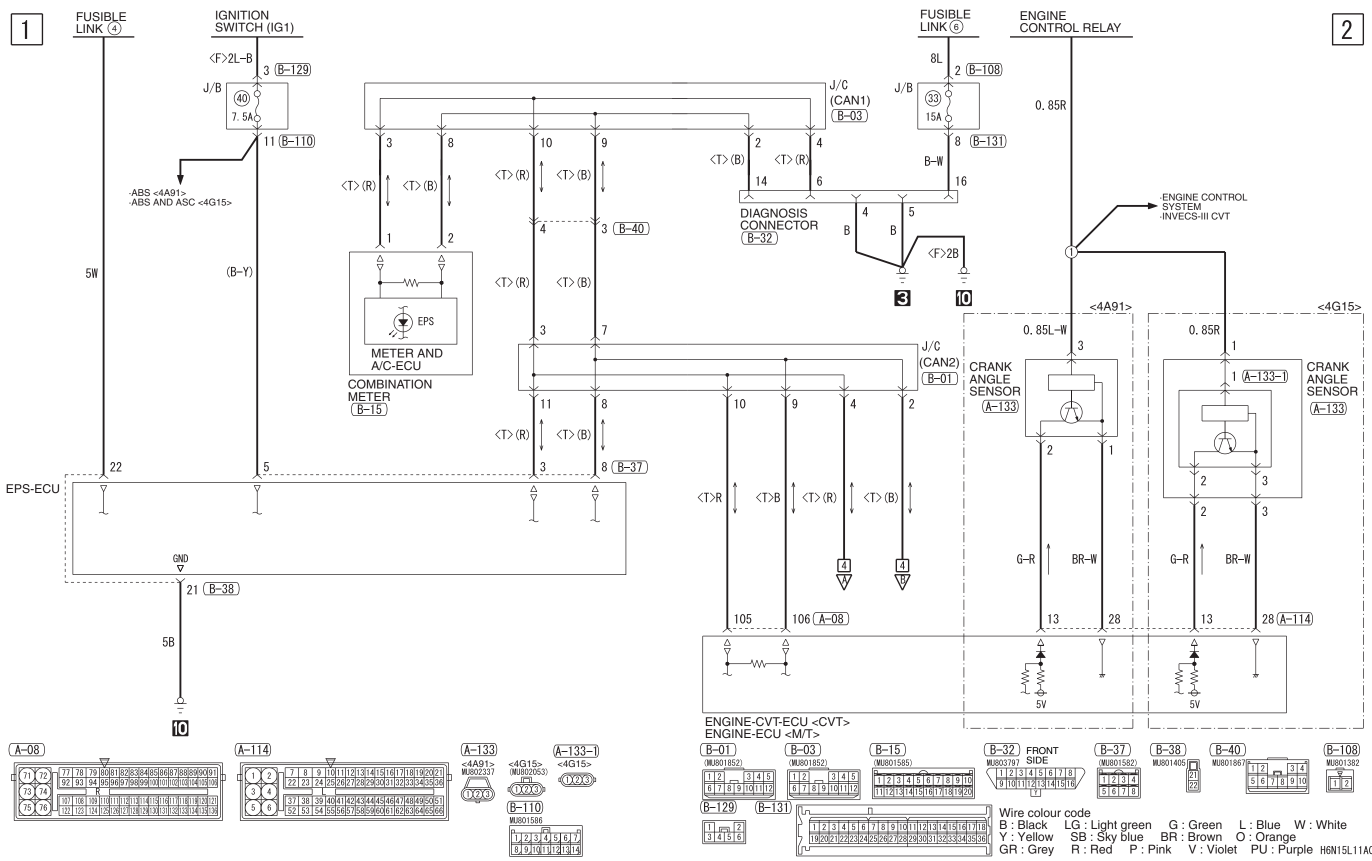


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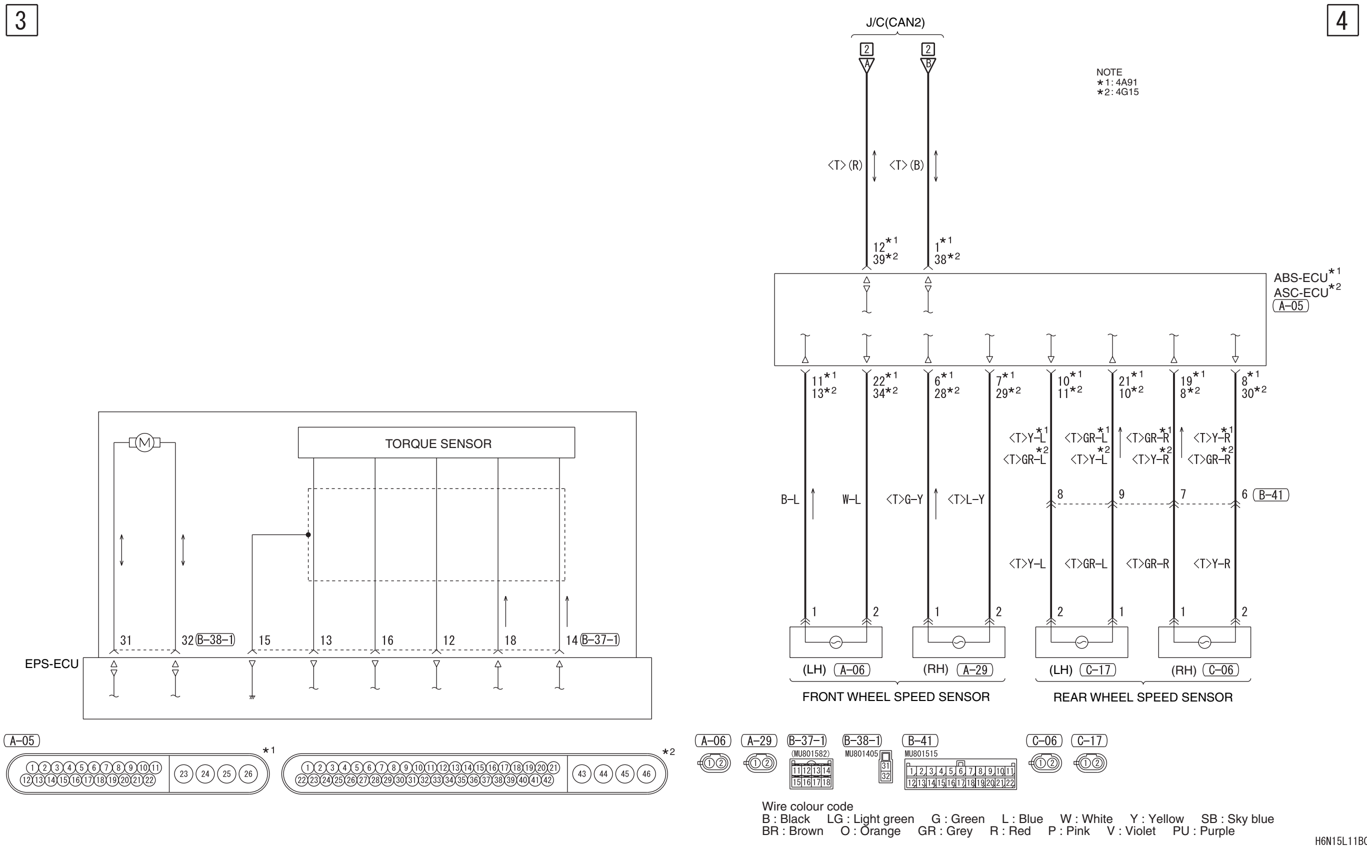
# ELECTRIC POWER STEERING SYSTEM

M1901021800258



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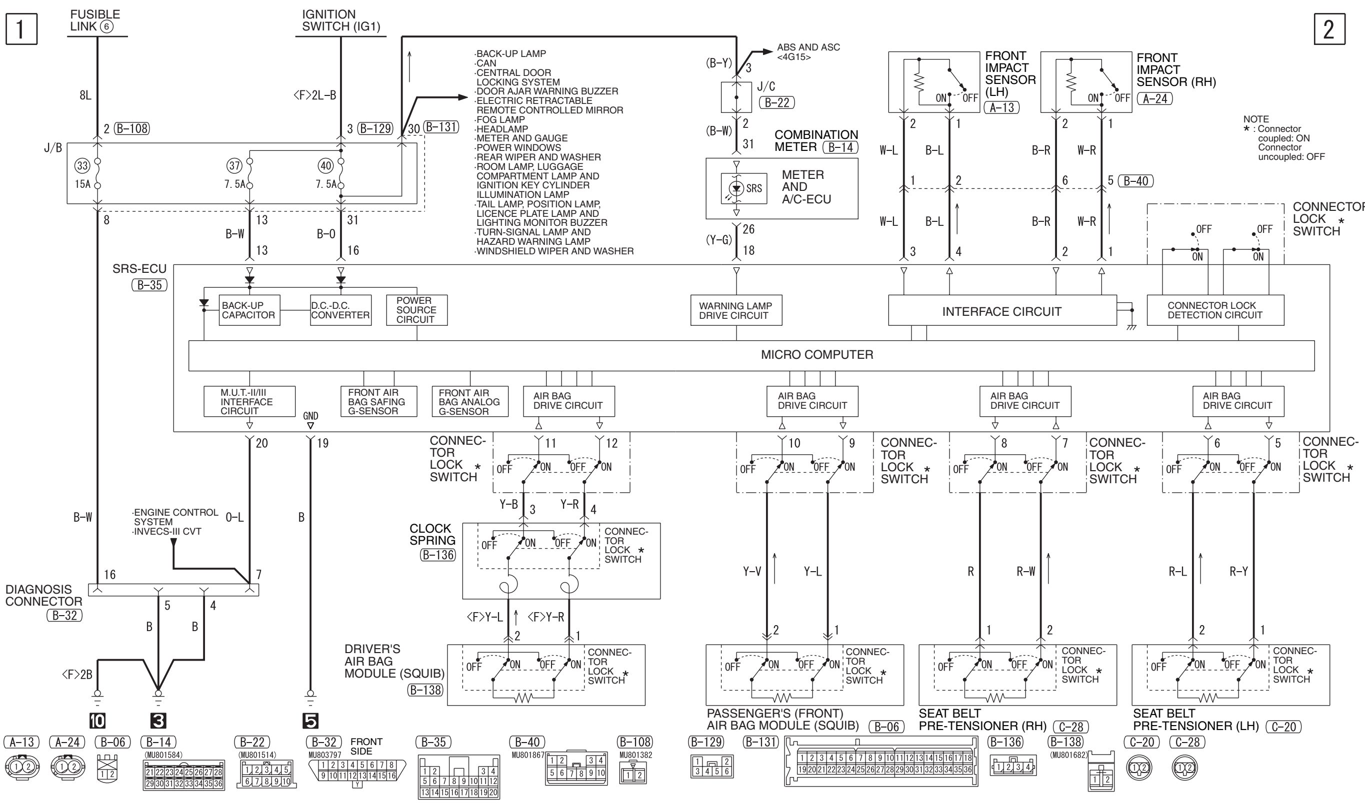
## ELECTRIC POWER STEERING SYSTEM (CONTINUED)



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# SRS

M1901021000489

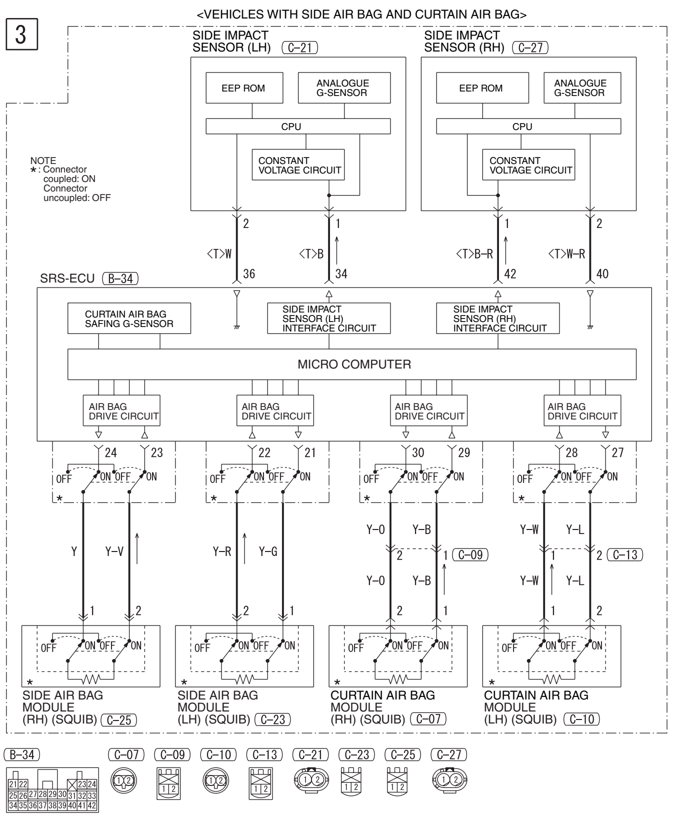



Wire colour code
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BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

H6N15L12AC

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## SRS (CONTINUED)




Wire colour code
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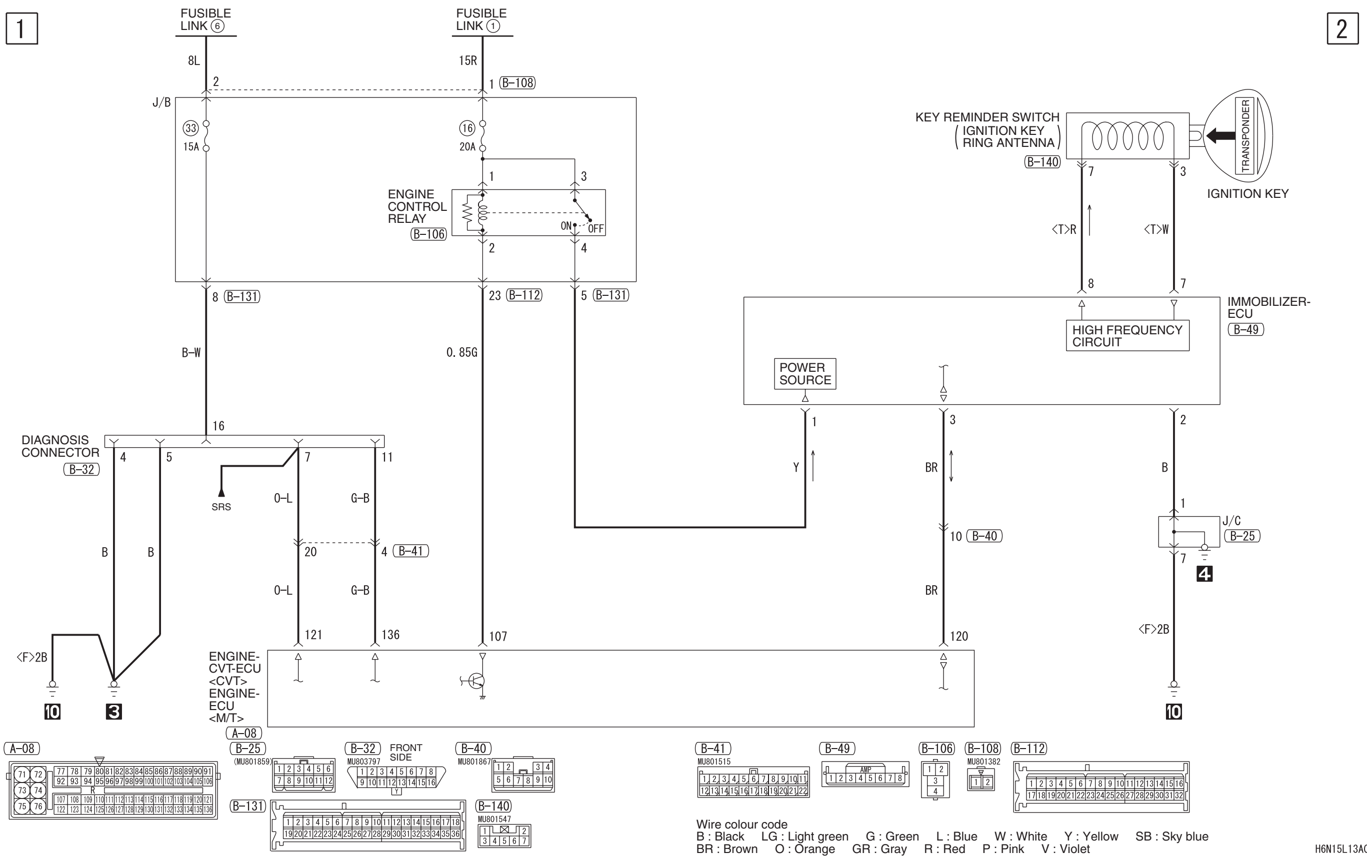
H6N15L12BC

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# IMMOBILISER SYSTEM

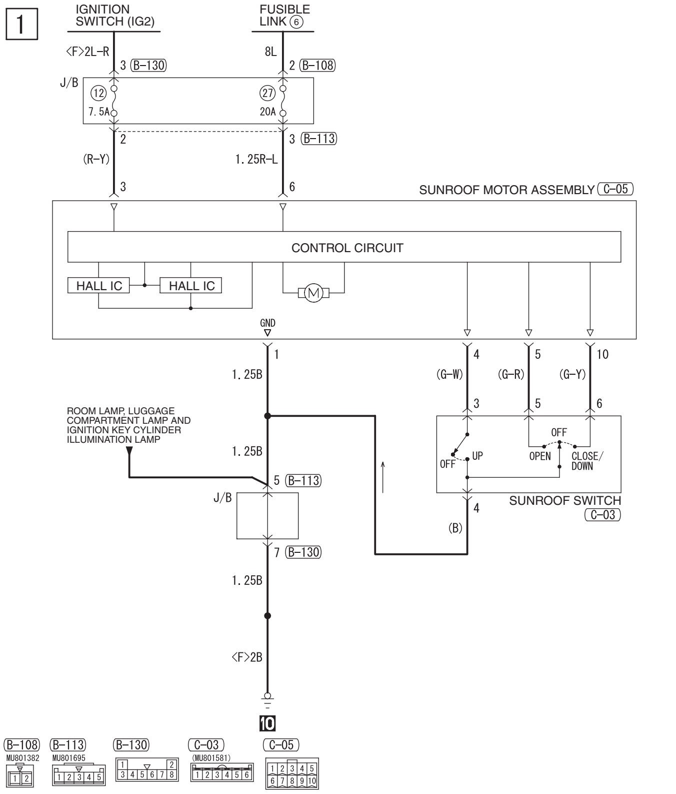
M1901013602749



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# SUNROOF

M1901009901551



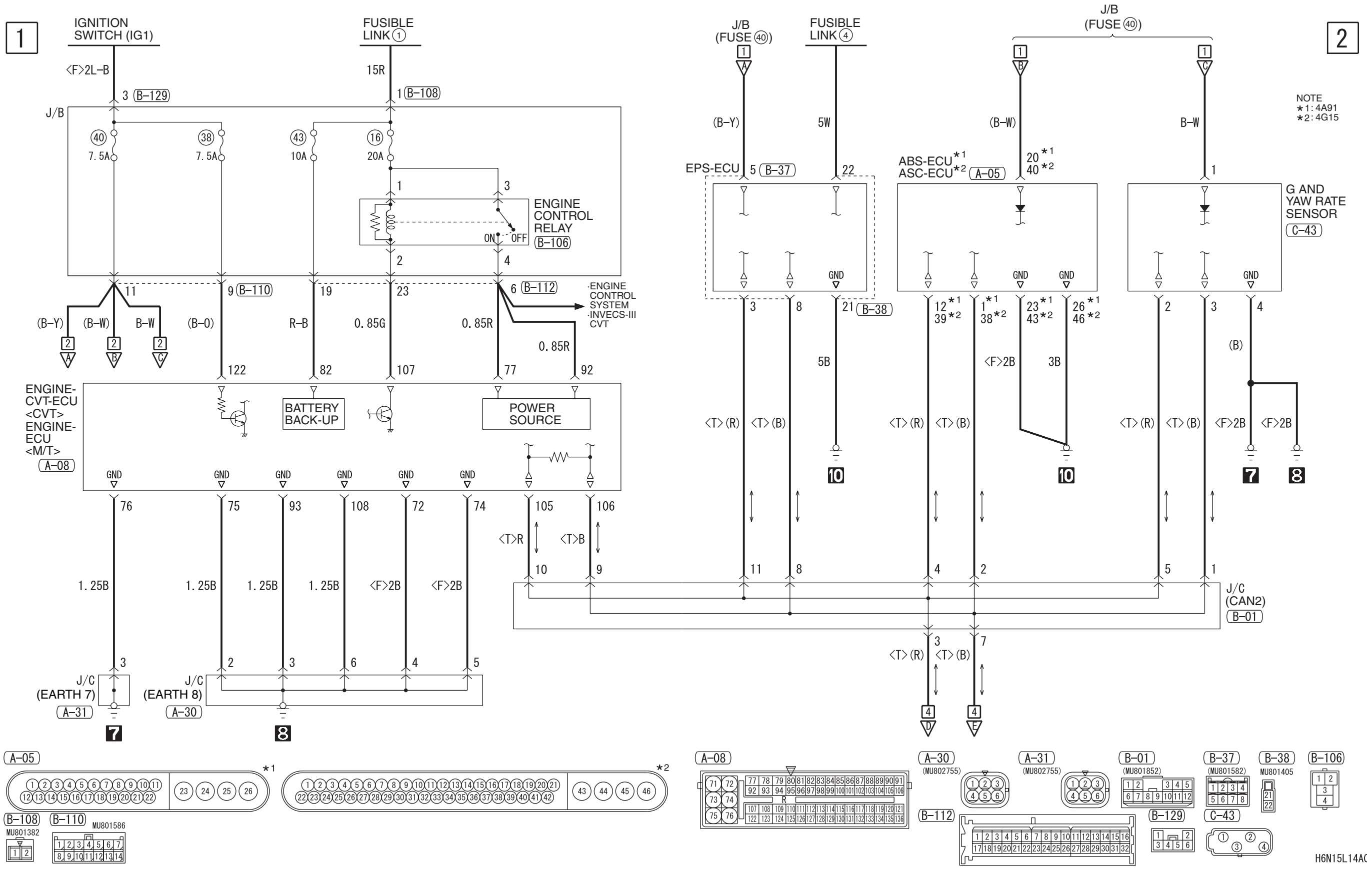

Wire colour code
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H6N15L04AC

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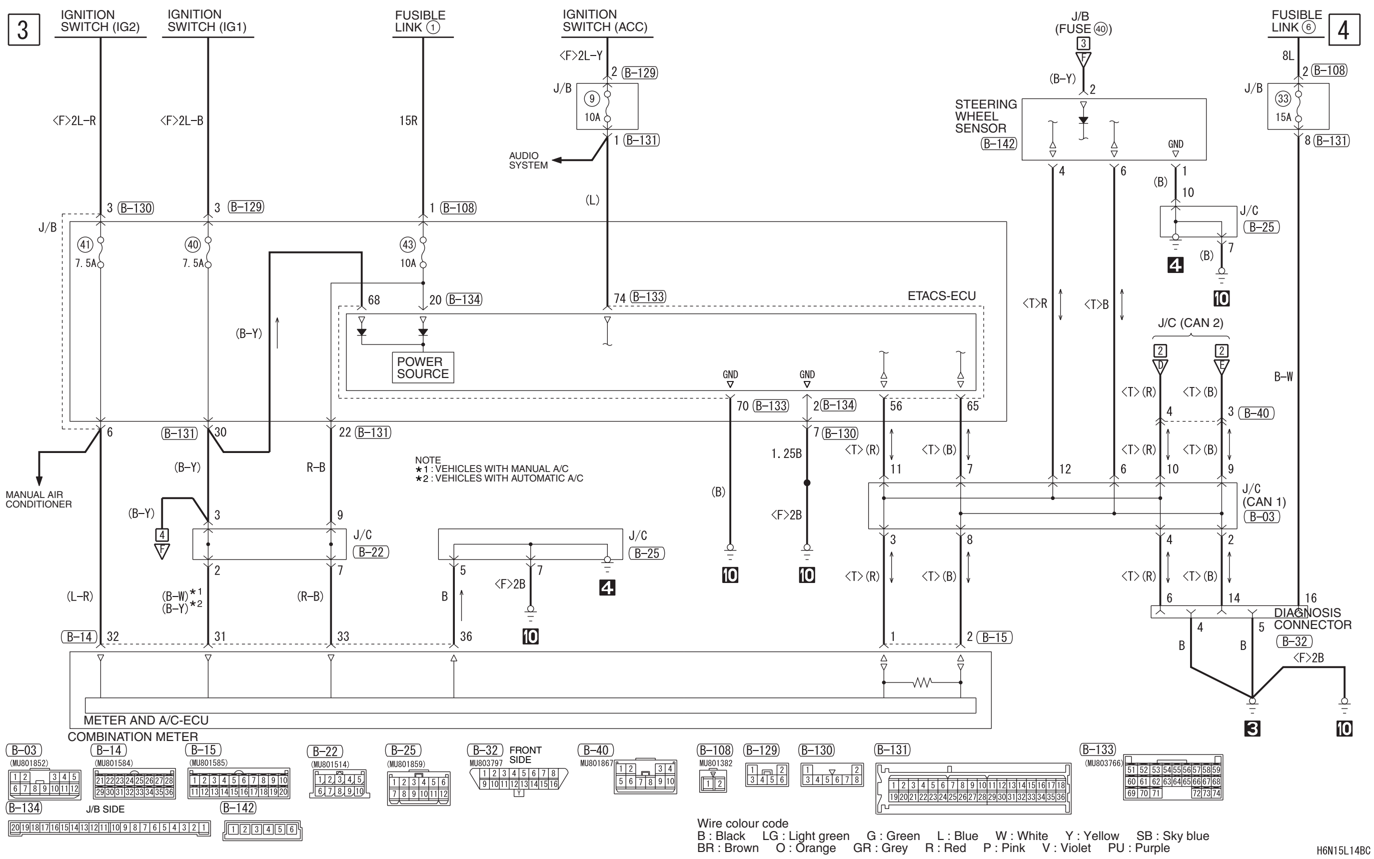
# CAN

M1901021100680



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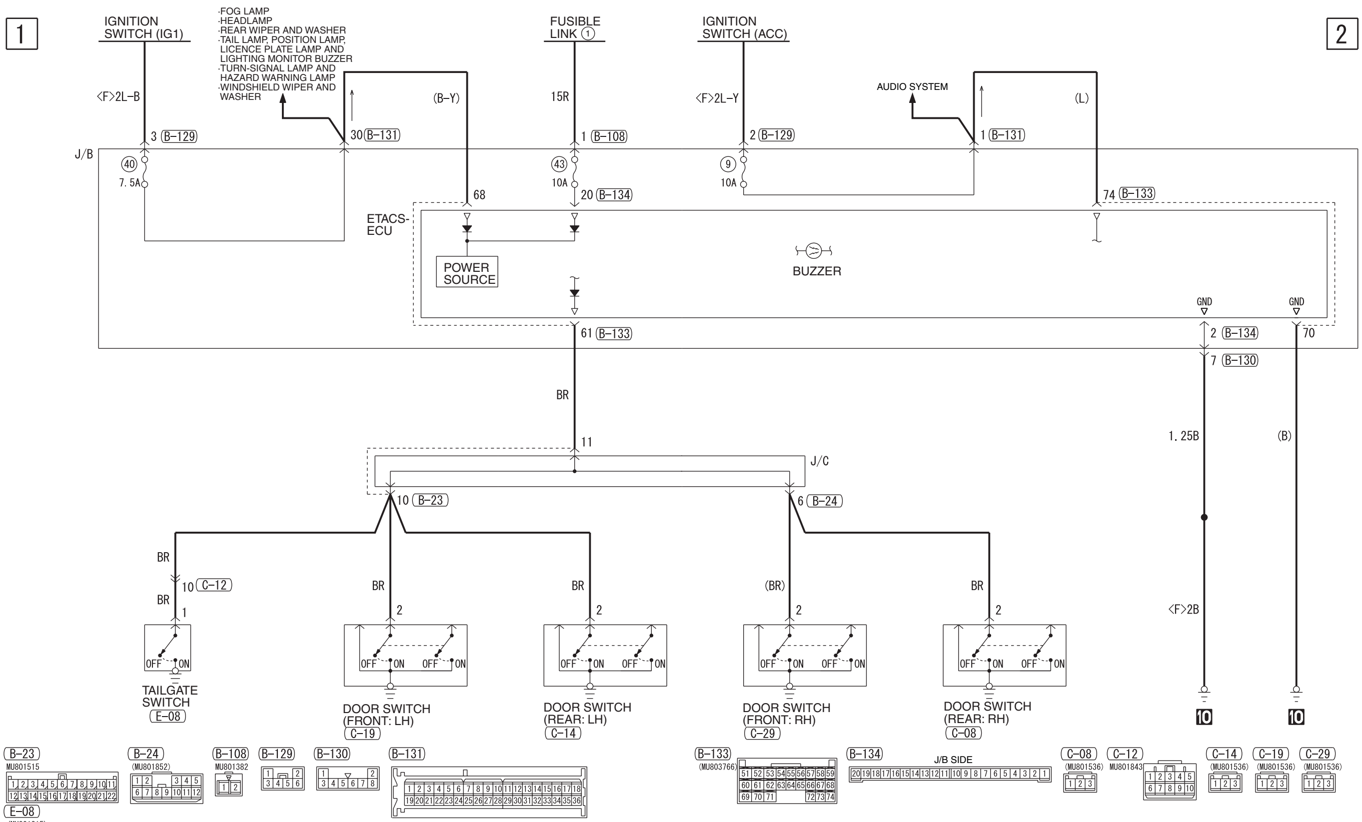
## CAN (CONTINUED)



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# DOOR AJAR WARNING BUZZER

M1901016600968

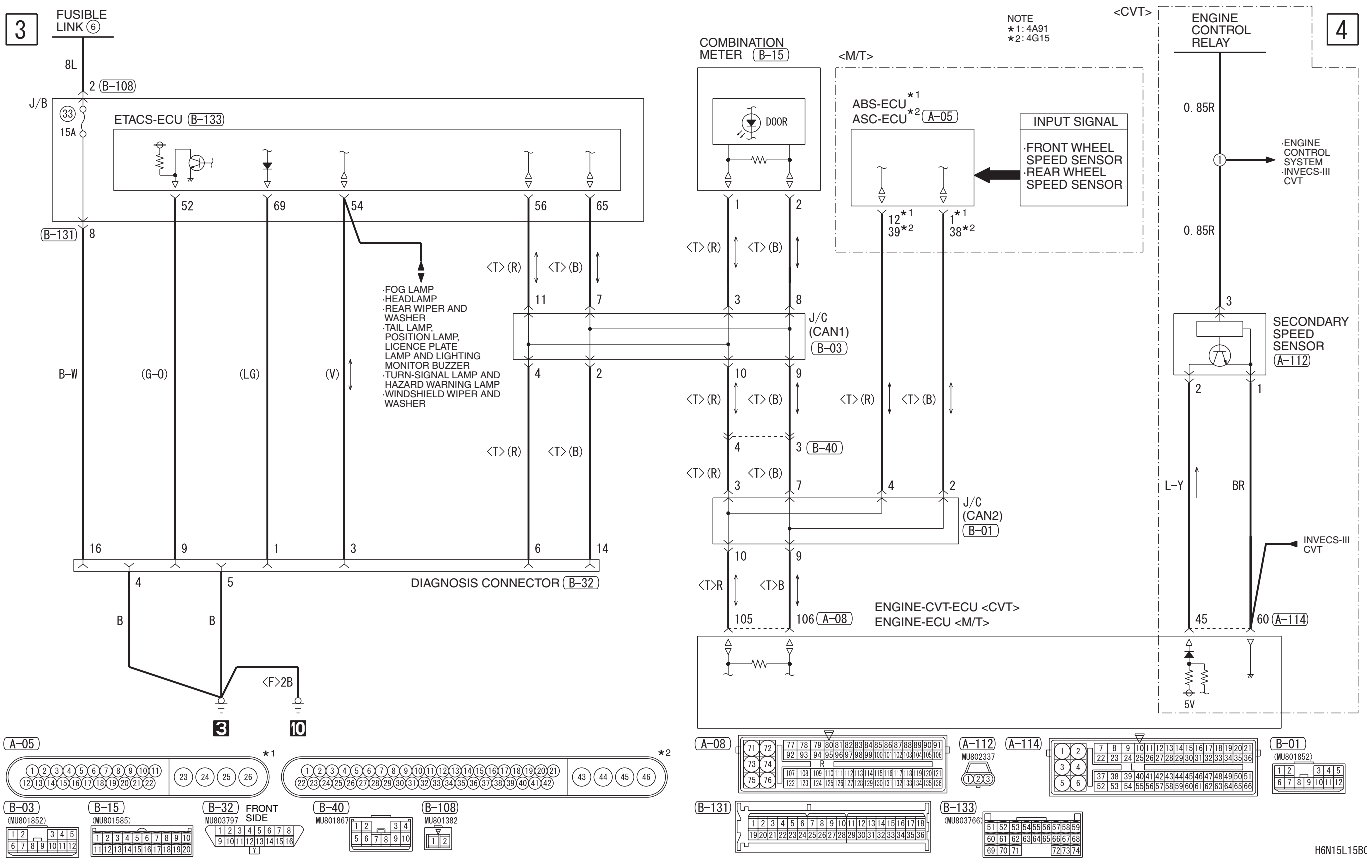



Wire colour code
B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Grey R : Red P : Pink V : Violet PU : Purple

H6N15L15AC

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## DOOR AJAR WARNING BUZZER (CONTINUED)



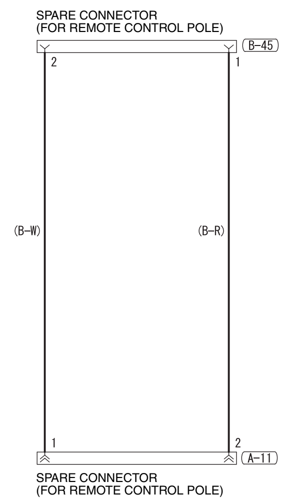
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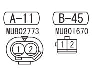
Group TOC

# SPARE CONNECTOR (FOR REMOTE CONTROL POLE)

M1901023000087

1




Wire colour code
B : Black  LG : Light green  G : Green  L : Blue  W : White  Y : Yellow  SB : Sky blue
BR : Brown  O : Orange  GR : Grey  R : Red  P : Pink  V : Violet  PU : Purple

H6N15L08AC